

IBM Red Brick Warehouse



# Messages and Codes Reference Guide

*Version 6.3*



IBM Red Brick Warehouse



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*Version 6.3*

**Note**

Before using this information and the product it supports, read the information in “Notices” on page 271.

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## About this book

This introduction provides an overview of the information in this document and describes the conventions it uses.

This reference guide provides a list of the informational, warning, and error messages issued by IBM® Red Brick Warehouse™ processes. Most messages are followed by a description of the probable cause of the message and an appropriate response for the user. This guide also includes a list of the event log messages issued by IBM Red Brick Warehouse processes and a description of the event that generates each message.

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## Who should read this book

You should read this guide if you are one of the following users:

- Database users
- Database administrators
- Database-application programmers
- Database developers
- Backup operators

You should have the following background:

- A working knowledge of your computer, your operating system, and the utilities that your operating system provides
- Some experience working with relational databases or exposure to database concepts
- Some experience with computer programming
- Some experience with database server administration, operating-system administration, or network administration

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## Software dependencies

You should be using IBM Red Brick Warehouse, Version 6.3, as your database server.

IBM Red Brick Warehouse includes the Aroma database, which contains sales data about a fictitious coffee and tea company. The database tracks daily retail sales in stores owned by the Aroma Coffee and Tea Company. The dimensional model for this database consists of a fact table and its dimensions.

For information about how to create and populate the demonstration database, see the *Administrator's Guide*. For a description of the database and its contents, see the *SQL Self-Study Guide*. The scripts that you use to install the demonstration database reside in the `redbrick_dir/sample_input` directory, where `redbrick_dir` is the IBM Red Brick Warehouse directory on your system.

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## Conventions and terminology used in this book

This guide uses typographical and terminology conventions to help you gather information from this and other volumes in the documentation set.

### Typographical conventions

The following conventions introduce new terms, illustrate screen displays, describe command syntax, and so forth.

Convention	Meaning
KEYWORDS	All elements in a programming language statement (keywords) appear in uppercase letters in a serif font.
<i>italics</i>	Within text, new terms and emphasized words appear in italics.
<i>italics</i>	Within syntax and code examples, variable values that you are to specify appear in italics.
<b>boldface</b>	Interface elements (such as icons, menu items, and buttons) as well as commands appear in boldface.
monospace	Names of program entities (such as classes, events, and tables), environment variables, directories, file names, and pathnames appear in monospace.
<i>monospace</i>	Information that the product displays and information that you enter appear in a monospace typeface.
>	This symbol indicates a menu item. For example, “Choose <b>Tools</b> > <b>Options</b> ” means choose the <b>Options</b> item from the <b>Tools</b> menu.

### Keywords and punctuation

Keywords are words reserved for statements and all commands except system-level commands. When a keyword appears in a syntax diagram, it is shown in uppercase characters. You can write a keyword in uppercase or lowercase characters, but you must spell the keyword exactly as it appears in the syntax diagram.

Any punctuation that occurs in a syntax diagram must also be included in your statements and commands exactly as shown in the diagram.



## Identifiers and names

Variables serve as placeholders for identifiers and names in the syntax diagrams and examples. You can replace a variable with an arbitrary name, identifier, or literal, depending on the context. Variables are also used to represent complex syntax elements that are expanded in additional syntax diagrams. When a variable appears in a syntax diagram, an example, or text, it is shown in *lowercase italic*.

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## Software support

If you have technical questions about IBM Red Brick Warehouse but cannot find the answer in the appropriate document, contact IBM Software Support as follows:

**Telephone** 1-800-274-8184 or 1-913-492-2086 (7 a.m. to 7 p.m. central time, Monday through Friday)

**Internet access**  
[www-3.ibm.com/software/data/informix/support/](http://www-3.ibm.com/software/data/informix/support/)

## Report a problem

To report a new problem, you must provide the following information:

- IBM Red Brick Warehouse version
- Platform and operating-system version
- Error messages returned by IBM Red Brick Warehouse or the operating system
- Concise description of the problem, including any commands or operations performed before you received the error message
- List of IBM Red Brick Warehouse or operating-system configuration changes made before you received the error message

For problems concerning client-server connectivity, you must provide the following additional information:

- Name and version of the client tool that you are using
- Version of the Red Brick ODBC Driver or JDBC Driver that you are using, if applicable
- Name and version of client network or TCP/IP stack in use
- Error messages returned by the client application
- Server and client locale specifications

## Existing cases

The support engineer who logs your case or first contacts you will always give you a case number. This number is used to keep track of all the activities performed during the resolution of each problem. To inquire about the status of an existing case, you must provide your case number.

## Troubleshooting tips

You can often reduce the time it takes to close your case by providing the smallest possible reproducible example of your problem. The more you can isolate the cause of the problem, the more quickly the support engineer can help you resolve it:

- For SQL query problems, try to remove columns or functions or to restate WHERE, ORDER BY, or GROUP BY clauses until you can isolate the part of the statement causing the problem.
- For Table Management Utility load problems, verify the data type mapping between the source file and the target table to ensure compatibility. Try to load a small test set of data to determine whether the problem concerns volume or data format.
- For connectivity problems, issue the **ping** command from the client to the host to verify that the network is up and running. If possible, try another client tool to see if the same problem arises.

---

## Related documentation

The standard documentation set for IBM Red Brick Warehouse includes the following documents.

Document	Description
<i>Administrator's Guide</i>	Describes warehouse architecture, supported schemas, and other concepts relevant to databases. Describes the Administrator tool, which provides graphical database administration. Includes procedural information for implementing and maintaining a database. Includes a description of the system tables and the configuration file.
<i>Client Installation and Connectivity Guide</i>	Includes procedures for installing ODBC, Red Brick JDBC Driver, RISQL Entry Tool, and RISQL Reporter on client systems. Describes how to access IBM Red Brick Warehouse using ODBC for C and C++ applications and JDBC for Java™ applications.
<i>IBM Red Brick Vista User's Guide</i>	Describes the IBM Red Brick Vista aggregate computation and management system. Illustrates how Vista improves query performance by automatically rewriting queries to use aggregates, describes how the Advisor recommends the best set of aggregates based on data collected daily, and explains how aggregate tables are maintained when their detail tables are updated.
<i>Installation and Configuration Guide</i>	Provides installation and configuration information, as well as platform-specific material, about IBM Red Brick Warehouse. Customized for either UNIX and Linux platforms or Windows platforms.
<i>Locale Support</i>	Identifies the locale components (languages, territories, code sets, and sort orders) supported by IBM Red Brick Warehouse products.
<i>Messages and Codes Reference Guide</i>	Contains a complete listing of all informational, warning, and error messages generated by IBM Red Brick Warehouse products, including probable causes and recommended responses. Also includes event log messages that are written to the log files.
<i>Query Performance Guide</i>	This guide describes the determinants of query performance and shows how to tune a database for optimal query performance. Examples show how to evaluate query performance using Red Brick tools: SET STATS, Dynamic Statistic Tables, EXPLAIN, and the Query Performance Monitor.
<i>Release Notes</i>	Contains information pertinent to the current release that was unavailable when the documents were printed.

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Document	Description
<i>RISQL Entry Tool and RISQL Reporter User's Guide</i>	Is a complete guide to the RISQL Entry Tool, a command-line tool used to enter SQL statements, and the RISQL Reporter, an enhanced version of the RISQL Entry Tool with report-formatting capabilities.
<i>SQL Reference Guide</i>	Is a complete language reference for the Red Brick SQL implementation and RISQL extensions for IBM Red Brick Warehouse databases.
<i>SQL Self-Study Guide</i>	Provides an example-based review of SQL and introduction to the RISQL extensions, the macro facility, and Aroma, the sample database.
<i>Table Management Utility Reference Guide</i>	Describes the Table Management Utility, including activities related to loading, maintaining, and backing up data. Also includes information about data replication and the rb_cm copy management utility.

Additional references you might find helpful include:

- An introductory-level book on SQL
- An introductory-level book on relational databases
- Documentation for your hardware platform and operating system

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## Additional documentation

For additional information, you might want to refer to the following types of documentation:

Documentation	Description
Online documents	A documentation CD that contains IBM Red Brick Warehouse documents in electronic format is provided with your Red Brick products. You can copy the documentation to your computer or access it directly from the CD.  You can also view documentation online by going to: <a href="http://www-3.ibm.com/software/data/informix/pubs/">www-3.ibm.com/software/data/informix/pubs/</a>
Printed documents	To order printed documents, contact your sales representative.
Online help	IBM provides online help with each graphical user interface (GUI) that displays information about those interfaces and the functions that they perform. Use the help facilities that each GUI provides to display the online help.

---

## How to send your comments

To help us with future versions of our documents, let us know about any corrections or clarifications that you would find useful. Include the following information:

- The full name and version of your document
- Any comments that you have about the document
- Your name, address, and phone number

Send electronic mail to us at the following address:

`comments@vnet.ibm.com`

This address is reserved for reporting errors and omissions in our documentation. If you prefer, you can fill out a comment form by going to:

`www.ibm.com/software/data/rcf/`

For immediate help with a technical problem, contact IBM Software Support.





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## Chapter 1. Event log messages

This chapter lists in numeric order the event log messages written by the log daemon to the log files. This chapter contains the following sections:

- Message format
- Message listing

---

### Message format

Event log messages are listed here by message number. A two-character RB prefix and a one-character *event category* indicator precede the message number. A one-character *event severity* indicator follows the message number.

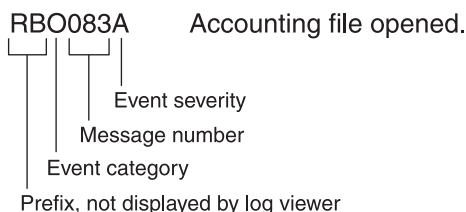


Figure 1. Message Format

The following table lists the event categories.

Category	Indicator	Description
Audit	A	Events related to security and access control. (Actual message prefixed by "AUD.")
Error	E	User actions or warehouse environment changes that cause errors or exceptions. The actual message text for a message in this category might reference the message code of a standard error message. In these cases, refer to Chapter 2, "Server and TMU messages," on page 15 for more information on the error message in question. (Actual message prefixed by "ERR.")
Operational	O	Administrative actions taken by warehouse administrators. (Actual message prefixed by "OPE.")
Schema	S	Changes to physical or logical database structures. (Actual message prefixed by "SCH.")
Usage	U	End-user operations in the warehouse system. (Actual message prefixed by "USA.")

The following table lists the event severities.

Severity	Indicator
Routine	R
Alert	A
Urgent	U

Many messages contain variable values (for example, *user\_name*). These variables are replaced with specific values when displayed by the log viewer.

---

## Message listing

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### RBO074A    **Advisor log file opened.**

**Reason:** The log daemon began advisor logging to a new advisor file.

---

### RBO075A    **Advisor log file closed.**

**Reason:** The log daemon stopped logging and closed the active advisor recording file.

---

### RBE076A    *message*

**Reason:** An error message issued by the warehouse API daemon.

---

### RBO077R    *message*

**Reason:** A routine informational message issued by the warehouse API daemon.

---

### RBO078A    *message*

**Reason:** An important informational or warning message issued by the warehouse API daemon.

---

### RBE079U    *message*

**Reason:** An extremely serious or urgent message issued by the warehouse API daemon.

---

### RBO080A    **Log for rbwapid redirected to warehouse common log.**

**Reason:** The log information produced by the warehouse API daemon was redirected to the common log file.

---

### RBO081A    **New accounting level is** *level\_name.*

**Reason:** The log daemon received a command to set a new accounting level.

---

### RBO082R    **Log daemon command:** *command\_name.*

**Reason:** The log daemon received and processed a command operation. The specific operation is indicated.

---

### RBO083A    **Accounting file opened.**

**Reason:** The log daemon began writing to a new accounting file.

---

### RBO084A    **Accounting file closed.**

**Reason:** The log daemon stopped accounting and closed the active accounting recording file.

---

**RBO085A**     *type* file reached maximum file size; switching.

**Reason:** A log or accounting recording file reached its maximum size (as set in the `rbw.config` file with an `ADMIN MAXSIZE` parameter), and recording switched to a new file.

---

**RBO086U**     Write to *type* recording file failed: *error\_message* (*errno*).

**Reason:** The log daemon could not complete a write operation to a recording file. The reason of the failure is indicated.

---

**RBO087U**     Could not open accounting file: *error\_message* (*errno*).

**Reason:** The log daemon could not create and open an accounting recording file. The reason of the failure is indicated.

---

**RBO088A**     New logging level for *event\_category* events is *level\_name*.

**Reason:** The log daemon received a command to set a new logging level for the indicated event.

---

**RBO089A**     Log daemon shutdown requested.

**Reason:** The log daemon received a command to quit.

---

**RBO090A**     Log file opened.

**Reason:** The log daemon began writing to a new log recording file.

---

**RBO091A**     Log file closed.

**Reason:** The log daemon stopped logging and closed the active log recording file.

---

**RBE093U**     Log daemon received illegal command *value*.

**Reason:** The log daemon received an illegal command. This message indicates an internal program logic error. Contact Customer Center.

---

**RBE094U**     Log message has illegal component *string*.

**Reason:** The log daemon received an erroneous component value. This message indicates an internal program logic error. Contact Customer Support.

---

**RBE095U**     Log message has illegal severity *string*.

**Reason:** The log daemon received an erroneous severity value. This message indicates an internal program logic error. Contact Customer Support.

---

**RBE096U**     Log daemon received invalid request: *type*

**Reason:** The log daemon encountered an error while processing a request of the indicated type. This message indicates an internal program logic error. Contact Customer Support.

---

**RBE097U**     Log daemon error *error\_code* retrieving message number *message\_number*.

**Reason:** The log daemon received an error while trying to find the indicated message number. This message indicates an internal program logic error. Contact Customer Support.

---

**RBO098R**     Log daemon received signal *signal\_number*; *action*.

**Reason:** The log daemon received the signal indicated in the message and took the action indicated.

---

**RBE099U**     Log daemon error: *error\_message*

**Reason:** An internal error was detected by the log daemon. Specific information about the error is provided in the error message text.

---

**RBS100R**     Connecting

**Reason:** A process has notified the administration daemon that it has started and is in the process of connecting to a database.

---

**RBS101R      Idle**

**Reason:** A process has notified the administration daemon that it is waiting for a command to run.

---

**RBS102R      Executing**

**Reason:** A process has notified the administration daemon that it is running a command.

---

**RBS103R      Compiling**

**Reason:** A process has notified the administration daemon that it is in the compiler phase of query processing.

---

**RBS104R      Calculator**

**Reason:** A process has notified the administration daemon that it is in the post-fetch phase of query processing.

---

**RBS105R      Returned *row\_count* rows;  
                  computed *row\_comp\_count* rows.**

**Reason:** A process has notified the administration daemon that it is in the return-row-and-compute-row phase of query processing.

---

**RBS106R      Sorting**

**Reason:** A process has notified the administration daemon that it is in the sorting phase of index creation.

---

**RBS107R      Building indexes**

**Reason:** A process has notified the administration daemon that it is building indexes.

---

**RBS108R      Inserted *row\_count* rows.**

**Reason:** A process has notified the administration daemon that it is in the insertion phase of an INSERT INTO...SELECT FROM statement.

---

**RBU109A      Starting merge phase of index  
                  building *index*.**

**Reason:** Indicates that a merge phase of index building is starting during a LOAD DATA, REORG or CREATE INDEX operation. This message is issued only when an index is built using the standard OPTIMIZED indexing mode. In some cases, this phase of index building can take substantial time. Information only.

---

**RBE110U      Administration daemon error:  
                  *error\_message***

**Reason:** An internal error was detected by the administration daemon. Specific information about the error is provided in the error message text.

---

**RBS111R      Deleted *row\_count* rows.**

**Reason:** A process has notified the administration daemon that it is in the deletion phase of a DELETE statement.

---

**RBS112R      Updated *row\_count* rows.**

**Reason:** A process has notified the administration daemon that it is in the update phase of an UPDATE statement.

---

**RBO150A      Database starter daemon started.**

**Reason:** The database starter daemon was started.

---

**RBO151A      Database starter daemon  
                  completed.**

**Reason:** The database starter daemon has completed.

---

**RBO152A      Vacuum cleaner daemon started.**

**Reason:** The vacuum cleaner daemon was started.

---

**RBO153A Vacuum cleaner daemon completed.**

**Reason:** The vacuum cleaner daemon has completed.

---

**RBO154R** *stat\_timetype\_string cp time, time\_string tot cp time, time\_string agg tot cp time, time\_string elapsed time, time\_string agg elapsed time, Logical Reads/Writes:number/numberstat*

**Reason:** Full statistic messages have been enabled. This message contains statistical information about the command. There might be platform-specific information following the Logical Reads/Writes information.

---

**RBO155A Process checker daemon started.**

**Reason:** The process checker daemon was started.

---

**RBO156A Process checker daemon completed.**

**Reason:** The process checker daemon has completed.

---

**RBO157A Abnormally terminated process has been detected. PID: *pid*.**

**Reason:** The process checker daemon detected an abnormally terminated process. Some cleanup will be performed internally.

---

**RBO158A Abnormally terminated process has been detected. Process ID: *pid*, Thread ID: *tid*.**

**Reason:** The process checker daemon detected an abnormally terminated thread. Some cleanup will be performed internally.

---

**RBO159A Performance monitoring daemon started.**

**Reason:** The performance monitoring daemon was started.

---

**RBO160A Performance monitoring daemon has shut down.**

**Reason:** The performance monitoring daemon has shut down, either gracefully or because of an error.

---

**RBE161U Performance monitoring daemon error: *error\_message*.**

**Reason:** An internal error was detected by the performance monitoring daemon. Specific information about the error is provided in the error message text.

---

**RBS300R** *object\_type object\_name* **completed successfully.**

**Reason:** Records an event that changes a database schema.

---

**RBU301R New max concurrent session count *number* for database *dbname*.**

**Reason:** A new maximum number of concurrent sessions has been reached for the specified database.

---

**RBE302R Missed connection handshake for process *pid*.**

**Reason:** Because processes do not wait for messages to be received by the administration daemon, it is possible for messages to be lost. In this case, a connection handshake message was lost, making it impossible for the daemon to track the statements to a particular user.

---

**RBE303A *rb\_deleter*: Error occurred deleting Red Brick Warehouse database.**

**Reason:** An error occurred in the *rb\_deleter* script while it was trying to delete a Red Brick Warehouse database. The error occurred when it issued an "rm" command to remove warehouse files.

---

**RBO304R**     **TMU started by user** *user\_name*.

**Reason:** The TMU (or PTMU) was started by the indicated user.

---

**RBS305R**     *object\_type object\_name object\_action*  
**completed successfully.**

**Reason:** Records an event that changes a database schema.

---

**RBS306R**     *object\_type object\_name sub\_type*  
*sub\_name object\_action* **completed**  
**successfully.**

**Reason:** Records an event that changes a database schema.

---

**RBS307R**     *object\_type object\_name sub\_type*  
*sub\_name* **completed successfully.**

**Reason:** Records an event that changes a database schema.

---

**RBO308R**     **TMU normal termination.**

**Reason:** The TMU (or PTMU) finished execution and exited with a normal termination status.

---

**RBU309A**     **LOAD DATA into** *table\_name*  
**started:** *attributes*.

**Reason:** Reports the start of a TMU LOAD DATA operation. Key attributes describing the LOAD DATA activity are listed.

---

**RBU310A**     **LOAD DATA into** *table\_name*  
**finished successfully.**

**Reason:** Reports the successful completion of a TMU LOAD DATA operation.

---

**RBU311R**     **UNLOAD** *table\_name* **started:**  
*attributes*.

**Reason:** Reports the start of a TMU UNLOAD operation. Key attributes describing the UNLOAD activity are listed.

---

---

**RBU312R**     **UNLOAD** *table\_name* **finished**  
**successfully.**

**Reason:** Reports the successful completion of a TMU UNLOAD operation.

---

**RBU313A**     **REORG** *table\_name* **started:**  
*attributes*.

**Reason:** Reports the start of a TMU REORG operation. Key attributes describing the REORG activity are listed.

---

**RBU316A**     **REORG** *table\_name* **finished**  
**successfully.**

**Reason:** Reports the successful completion of a TMU REORG operation.

---

**RBO317A**     **BACKUP of** *db* **with backup level**  
**level, backup type** *type*, **and**  
**backup media** *media* **started.**

**Reason:** Reports the start of a TMU BACKUP operation. The database name, backup level, backup type, and backup media type are listed.

---

**RBO318A**     **BACKUP finished successfully,**  
**database** *db*.

**Reason:** Reports the successful completion of a TMU BACKUP operation.

---

**RBO319A**     **Starting part restore of database**  
*db*.

**Reason:** Reports the start of a TMU RESTORE operation.

---

**RBO320A**     **PARTIAL RESTORE of 'name'**  
**finished successfully, database** *db*.

**Reason:** Reports the successful completion of a TMU PARTIAL RESTORE operation.

---

**RBO321A**     **RESTORE finished successfully,**  
**database** *db*.

**Reason:** Reports the successful completion of a TMU RESTORE operation.

---

---

**RBU322R**     **INSERT into *table\_name*, rows inserted: *rows*.**

**Reason:** Reports the completion of an INSERT operation.

---

**RBU323R**     **DELETE from *table\_name*, rows deleted: *rows*.**

**Reason:** Reports the completion of a DELETE operation.

---

**RBU324R**     **CASCADED DELETE from *table\_name*, rows deleted: *rows*.**

**Reason:** Reports the completion of a cascaded DELETE operation.

---

**RBU325R**     **SELECT from *table\_names*, rows selected: *num\_rows*.**

**Reason:** Reports the completion of a SELECT operation.

---

**RBU326R**     **UPDATE table *table\_name*, rows updated: *rows*.**

**Reason:** Reports the completion of an UPDATE operation.

---

**RBO327A**     **Utility command '*msg*' executed.**

**Reason:** Reports that a utility command (TBLCHK or IXVALID) was run.

---

**RBU328R**     **DELETE from *table\_name*, all rows deleted.**

**Reason:** Reports the completion of a DELETE operation.

---

**RBU329R**     **Executed statement: *full\_sql\_text*,  
Sequence number: *seq\_num***

**Reason:** Reports the full text of the statement executed, as received by the server.

---

**RBU330R**     **Precomputed view maintenance for *viewname* succeeded and it has been marked valid.**

**Reason:** Reports the successful completion of precomputed view maintenance.

---

**RBU331A**     **Precomputed view maintenance for *viewname* failed and it has been marked invalid.**

**Response:** The precomputed view must be recomputed and marked valid.

---

**RBU332R**     **Precomputed view maintenance for *viewname* caused rows to be inserted into *tablename*, rows inserted: *number*.**

**Reason:** Reports the number of rows inserted into the precomputed table as a result of precomputed view maintenance operation.

---

**RBU333R**     **Precomputed view maintenance for *viewname* caused rows to be deleted from *tablename*, rows deleted: *number*.**

**Reason:** Reports the number of rows deleted from the precomputed table as a result of precomputed view maintenance operation.

---

**RBU334R**     **Precomputed view maintenance for *viewname* caused rows to be updated in *tablename*, rows updated: *number*.**

**Reason:** Reports the number of rows updated in the precomputed table as a result of precomputed view maintenance operation.

---

**RBU335A**     **Precomputed view maintenance for *viewname* succeeded, but view validation failed.**

**Response:** If no further updates have been performed, then set the view to a valid state.

---

**RBO336R**     **TMU started by user *user\_name* in Remote mode.**

**Reason:** The TMU (or PTMU) was started by the indicated user in Remote mode.

---

**RBU339A**     **PSU '*psu\_name*' has been dropped.**

**Reason:** The DROP LAST STORAGE command succeeded in dropping the specified PSU.

---

**RBO400A**     **Administration daemon shutdown requested.**

**Reason:** The administration daemon received a command to quit.

---

**RBO401A**     **Administration daemon started.**

**Reason:** The administration daemon was started.

---

**RBA402A**     **Alter system cancel user command  
*user:user\_name db:db\_name*  
*pid:process\_id***

**Reason:** An ALTER SYSTEM command was issued to cancel the current command for the specified session.

---

**RBA403A**     **Alter system close user session  
*user:user\_name db:db\_name*  
*pid:process\_id***

**Reason:** An ALTER SYSTEM command was issued to close the specified session.

---

**RBA404A**     **Alter system reset stats  
*db:db\_name***

**Reason:** An ALTER SYSTEM command was issued to reset the statistics for the specified database.

---

**RBA405A**     **Alter system quiesce *db:db\_name***

**Reason:** An ALTER SYSTEM command was issued to quiesce the specified database.

---

**RBA406A**     **Alter system resume *db:db\_name***

**Reason:** An ALTER SYSTEM command was issued to resume the specified database.

---

**RBA407A**     **Alter system change user priority  
*user:user\_name db:db\_name*  
*pid:process\_id priority:priority***

**Reason:** An ALTER SYSTEM command was issued to change the priority of the specified session.

---

**RBA408A**     **Alter system terminate  
administration daemon.**

**Reason:** An ALTER SYSTEM command was issued to shut down the administration daemon.

---

**RBE500R**     **User *user\_name* received: \*\*  
WARNING \*\* (*error\_number*)  
*error\_text***

**Reason:** Records a WARNING message produced by a Red Brick Warehouse component.

---

**RBE501A**     **User *user\_name* received: \*\*  
ERROR \*\* (*error\_number*) *error\_text***

**Reason:** Records an ERROR message produced by a Red Brick Warehouse component.

---

**RBE502U**     **User *user\_name* received: \*\* FATAL  
\*\* (*error\_number*) *error\_text***

**Reason:** Records a FATAL message produced by a Red Brick Warehouse component.

---

**RBE510U**     **Server communication with client  
failed, error = *errno*.**

**Reason:** The server lost communication with the client due to a low-level system error. The system error code is indicated.



---

**RBO511R**     **Starting ALTER TABLE at segment *segment\_name*.**

**Reason:** The server is starting an ALTER TABLE ADD or DROP COLUMN command at the specified segment.

---

**RBO512R**     **Resuming ALTER TABLE at segment *segment\_name*.**

**Reason:** The server is resuming a pending ALTER TABLE ADD or DROP COLUMN command at the specified segment.

---

**RBO513R**     **Starting alter from segment *segment\_name* to segment *segment\_name*.**

**Reason:** The server is beginning an ALTER TABLE ADD or DROP COLUMN operation from the source segment to the destination segment.

---

**RBO514R**     **Finished alter from segment *segment\_name* to segment *segment\_name*.**

**Reason:** The server has finished an ALTER TABLE ADD or DROP COLUMN operation from the source segment to the destination segment.

---

**RBO515R**     **Starting copy from segment *segment\_name* to segment *segment\_name*.**

**Reason:** The server is beginning a copy operation from the source segment to the working segment as a part of the 'ALTER TABLE ADD or DROP COLUMN USING <working\_segment>' operation.

---

**RBO516R**     **Finished copy from segment *segment\_name* to segment *segment\_name*.**

**Reason:** The server has finished a copy operation from the source segment to the working segment as a part of the 'ALTER TABLE ADD or DROP COLUMN USING <working\_segment>' operation.

---

**RBO517R**     **Segment *segment\_name* currently occupies *curr\_KBsize* KB. The new estimated size is *new\_KBsize* KB.**

**Reason:** ALTER TABLE calculates the space required for each segment of a table after a column is added or dropped. The estimated size of each segment is displayed before the alter operation starts.

---

**RBA600A**     **Invalid user login attempt - unknown user\_name: *user\_name*.**

**Reason:** Records a failed login attempt with a non-existent username.

---

**RBA601A**     **Invalid user login attempt - invalid password for user *user*.**

**Reason:** Records a failed login attempt with a valid username but an invalid password.

---

**RBA602A**     **Invalid user login attempt - user account *user\_name* is locked.**

**Reason:** Records a failed login attempt when the user's account is locked.

---

**RBA603A**     **Invalid user login attempt - user account *user\_name* is expired.**

**Reason:** Records a failed login attempt when the user's password has expired.

---

**RBA604A**     **DBA level user *user\_name* logged in.**

**Reason:** Records that a user who is a member of the DBA system role (or has at least one of the DBA-level task authorizations) logged in.

---

**RBA605R**     **Invalid password supplied by user *user\_name* for user *user\_name*.**

**Reason:** Records that a GRANT CONNECT statement supplied a password that did not meet one or more of the requirements set forth for passwords in the configuration file.

---

**RBA606A**     **User *user\_name* changed password for user *user\_name*.**

**Reason:** Records that a user's password was changed.

---

**RBA607A**     **User *user\_name* created *type name*.**

**Reason:** Records that the specified user issued a GRANT CONNECT or CREATE ROLE statement, specifying an unused name, thereby creating a new user or role.

---

**RBA608A**     **User *user\_name* removed *type name*.**

**Reason:** Records that the specified user issued a REVOKE CONNECT or DROP ROLE statement, thereby removing the named user or role.

---

**RBA609A**     **User *user\_name* added *name* to *name*.**

**Reason:** Records that the user, role, task authority, or system role was granted to the specified user or role via a GRANT statement.

---

**RBA610A**     **User *user\_name* removed *name* from *name*.**

**Reason:** Records that the user, role, task authority, or system role was revoked from the specified user or role via a REVOKE statement.

---

**RBA611A**     **User *user\_name* added *privilege* on table *table\_name* to *name*.**

**Reason:** Records a GRANT statement that granted an object privilege on a table to a user or role.

---

**RBA612A**     **User *user\_name* removed *privilege* on table *table\_name* from *name*.**

**Reason:** Records a REVOKE statement that revoked an object privilege on a table from a user or role.

---

**RBA620A**     **Unauthorized data access - user *user\_name* does not have *privilege* privilege on table *table\_name*.**

**Reason:** Records that a user attempted to access a table via an operation that required SELECT privilege on the table, but the user did not have that privilege.

---

**RBA621A**     **User *user\_name* logged in.**

**Reason:** Records that a user that is a member of any user-defined role logged in.

---

**RBA630A**     **Unauthorized operation - user *user\_name* does not have sufficient authority to *operation*.**

**Reason:** Records that a user attempted to perform an operation, but the user did not have the necessary authorization.

---

**RBA631A**     **Unauthorized operation - user *user\_name* does not have sufficient authority to *operation object\_name*.**

**Reason:** Records that a user attempted to perform an operation on the specified object, but the user did not have the necessary authorization.

---

**RBS632R**     **UPGRADE of *database* started.**

**Reason:** Reports the start of a TMU UPGRADE operation.

---

**RBS633R**     **UPGRADE of system table *table\_name* completed successfully.**

**Reason:** Reports the successful upgrade of the named system table.

---

**RBS635R**     **Total views processed by UPGRADE: *viewcount*.**

**Reason:** Reports the number of views found in the database being upgraded.

---

**RBS636R**      **UPGRADE of *object\_type*  
*object\_name* completed  
successfully.**

**Reason:** Records the successful upgrade of the named database object.

---

**RBS637R**      **File containing the DDL to  
recreate views: '*filename*'**

**Reason:** Reports the name of the file containing the DDL statements needed to create the views that were deleted from the database during the UPGRADE operation.

---

**RBE638U**      **The server was shutdown since  
the idle timeout specified as  
*interval* minutes expired.**

**Reason:** The user had specified a idle timeout value and the specified time interval expired hence the server was shutdown.

---

**RBS639U**      **Error inserting *object\_type*  
Number/Id *seqid* for *object\_name***

**Reason:** During an upgrade, the specified object could not be created. This problem generally means that the system catalog being upgraded is corrupted, although the error occurs while inserting an object in the new, upgraded catalog.

---

**RBS640U**      **Error accessing *object\_type*  
Number/Id *seqid* for *object\_name***

**Reason:** During an upgrade, the specified object could not be accessed. This problem generally means that the system catalog being upgraded is corrupted.

---

**RBS641A**      **Error processing *object\_type* block  
*blocknum* item count**

**Reason:** During an upgrade, the specified block had an incorrect item count in its header. This typically means that the system catalog being upgraded is corrupted, although the corruption might not be severe. No further processing is possible for the specified block.

---

**RBS642U**      **Error processing *object\_type* block  
*blocknum* has invalid next *blocknum***

**Reason:** During an upgrade, the specified block contained an invalid value for the next block number. No further processing is possible for the specified type.

---

**RBS643U**      **Error processing *object\_type*  
sequence *blockseq* block *blocknum*  
has invalid type *typeid***

**Reason:** During an upgrade of the specified object, the block contained an unexpected type identifier. The block is ignored and no further processing is possible for the type.

---

**RBS644U**      **Cycles in system catalog for  
*object\_type*.**

**Reason:** There are cycles in the chain of objects or blocks for an object of the specified type. No further processing is possible for the type.

---

**RBS645U**      **UPGRADE completed with  
*error\_count* errors or warnings.**

**Reason:** This message indicates that the old catalog suffered some corruption, and the upgrade completed with errors. The system catalog might not be usable now; if so, rename the old, saved catalog file and reinstall the old version of the software to continue using the system. If the errors are not severe, the catalog can be used.

---

**RBS646U**      **Too many errors encountered;  
UPGRADE aborted.**

**Reason:** The upgrade was aborted because a large number of errors were encountered.

---

**RBS647R**      **System catalog compaction  
completed successfully.**

**Reason:** The `rb_syscompact` utility completion message.

---

**RBS648R**      **System catalog compaction had error, reverting to existing catalog.**

**Reason:** The rb\_syscompact utility completion message.

---

**RBS649A**      **System catalog compaction had error, could not restore catalog.**

**Reason:** The rb\_syscompact utility was run to compact the catalog, but it could not complete, probably because the catalog was corrupted. An attempt was made to restore the original catalog, but it failed. The file RB\_DEFAULT\_IDX.bak in the database directory has the backup, which needs to be manually renamed as RB\_DEFAULT\_IDX. Then a quick check can be made on the catalog using the -s switch of rb\_syscompact utility.

---

**RBL900A**      *num\_cpus* **CPU(s) online and**  
*maxserv* **maximum concurrent**  
**connections.**

**Reason:** Interesting information regarding the runtime environment is logged.

---

**RBO1000A**      **Listener daemon shutdown requested.**

**Reason:** The listener daemon received a command to quit.

---

**RBO1001A**      **Listener daemon started.**

**Reason:** The listener daemon was started.

---

**RBO1002A**      **Control-C daemon shutdown requested.**

**Reason:** The Control-C daemon received a command to quit.

---

**RBO1003A**      **Control-C daemon started.**

**Reason:** The Control-C daemon was started.

---

**RBO1004A**      **timer daemon shutdown requested.**

**Reason:** The timer daemon received a command to quit.

---

**RBO1005A**      **timer daemon started.**

**Reason:** The timer daemon was started.

---

**RBO1006A**      **Not enough memory to start RBWSVR thread with the user defined stack size *SIZEKB*, reverting to NT default.**

**Reason:** An RBWSVR thread could not be created because there is not enough memory to allocate the user defined stack size. Please reset (reduce) RBWAPI STACK\_SIZE value.(Thread stack size was reverted to NT default)

---

**RBE6001U**      **Unrecoverable block *number* in Version Log. From Segment: *number*, Block: *number*, Revision: *number*.**

**Reason:** An unrecoverable block was found during recovery.

---

**RBE6002A**      **Recovery completed to revision *number* with *number* blocks recovered and *number* errors during recovery.**

**Reason:** Errors were discovered during recovery. Please report the errors to Customer Support.

---

**RBO6003A**      **Recovery completed to revision *number* with *number* blocks recovered.**

**Reason:** Recovery completed successfully.

---

**RBE6010U**      **The shared resources for the database *dbname* have been marked bad.**

**Reason:** Terminate the shared resources for the database and then reconnect to the database.

RBE6050A	Transaction with an assigned revision number <i>number</i> aborted.
RBE6051A	Transaction aborted.
RBO6052R	Transaction with an assigned revision number <i>number</i> committed.
RBO6053A	All the shared resources cleanup has completed.
RBE6054A	Encountered an internal error : <i>number</i> during the cleanup.
RBE6055A	Transaction with an assigned revision number <i>number</i> committed.
RBE6056A	Encountered an internal error : <i>number</i> during the database shared-memory cleanup.
RBO6061R	Committed the segment <i>segname</i> with revision <i>number</i> .
RBO6062R	Cleaned the segment <i>segname</i> with revision <i>number</i> from version log.
RBO6063A	Database ' <i>dbname</i> ' started.
RBO6064A	Database stopped.
RBS6065R	Version log created in <i>segname</i> .
RBS6066R	Version log dropped.
RBO6067R	Versioning started.
RBO6068R	Versioning stopped.

RBO6071U	Version log utilization reached a critical level of <i>number</i> percent.
<b>Reason:</b>	Either complete some transactions or recreate the version log with larger space.
RBO6072A	Purged the segment <i>segname</i> with revision <i>number</i> from version log.
RBE7000A	Unauthorized operation - user <i>user_name</i> does not have sufficient authority to operation.
<b>Reason:</b>	Records that a user attempted to perform an operation, but that user did not have the necessary authorization.
RBA7001A	<i>status</i> to operation object <i>obj_name</i> .
<b>Reason:</b>	Information only; records the status of the operation (lock/unlock) on the object name.
RBA7002A	Function <i>function_name</i> failed.
<b>Reason:</b>	Information only; records the failure of the specified function.
RBA7003A	<i>status</i> to get the next file/psu for the object name <i>obj_name</i> from the iterator.
<b>Reason:</b>	Information only; records the status of the function <i>rbrNextFile</i> , which fetches the next file/psu for the object name specified in file iterator.
RBO7021A	Foreign backup process started, database <i>db</i> .
<b>Cause:</b>	The message indicates that the foreign backup process is about to start.
<b>Response:</b>	No response.
RBO7022A	Foreign backup process completed, database <i>db</i> .
<b>Cause:</b>	The message indicates that the foreign backup process is complete.

**Response:** No response.

---

**RBO7051A** Backup to 'file' started at time.

**Reason:** This message reports the start of a TMU BACKUP operation to a backup destination. The backup destination and backup timestamp are listed.

---

**RBO7052A** Backup to 'file' completed at time.

**Reason:** This message reports the completion of a TMU BACKUP operation to a backup destination. The backup destination and backup timestamp are listed.

---

**RBO7053A** Starting enforced partial restore for segment or PSU name *object* from file, database *db*.

**Reason:** This message reports the start of a TMU RESTORE operation for a named segment or PSU from the backup file, device, or directory, as specified. The restore operation is enforced and the consistency of the database might be compromised. Additional actions might be required to bring the database to a consistent state.

---

**RBO7068A** Foreign restore process started, database *db*.

**Cause:** The message indicates that the foreign restore process is about to start.

**Response:** No response.

---

**RBO7069A** Foreign restore process completed, database *db*.

**Cause:** The message indicates that the foreign restore process is complete.

**Response:** No response.

---

**RBO7075A** Foreign restore terminated with an error, database *db*.

**Cause:** The foreign restore operation was not successful.

**Response:** Resolve the problem indicated by one of the previous messages and re-submit.

---

**RBU7501R** EXPORT *bytes\_written* bytes for *num\_rows* written to file *file\_name*.

**Reason:** Information only; records the status of the EXPORT command. There will be one message for each file created.

---

## Chapter 2. Server and TMU messages

This chapter provides a complete list of the informational, warning, and error messages issued by the IBM Red Brick Warehouse server and the TMU. This chapter contains the following sections:

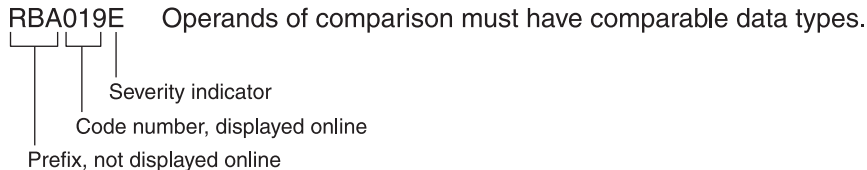
- Message format
- Message listing

---

### Message format

When you see a code number and message displayed while using Red Brick Warehouse components, use that number to look up the message in this guide for more information.

Messages are listed with a serial number that begins with a three-character prefix, followed by the numeric code and a one-character severity indicator. The messages are in numerical order based on the code number; the prefix is ignored and is not displayed on the screen.



*Figure 2. Message format*

Each message has an assigned severity level, which is indicated by a letter following the code number. The following table lists and describes severity levels.

Severity Level	Indicator	Description
Informational	I	Displays status of operation.
Status	S	Displays statistical information.
Warning	W	Warns of potential error; warehouse process remains active.
Error	E	Indicates that statement or command failed; warehouse process remains active.
Fatal	F	Indicates that warehouse process has terminated.

Many messages in this guide contain variable values (for example, *column\_name*). These variables are replaced with specific values when they are displayed on the screen.

In many cases, this guide provides more detailed information than is available on your terminal or workstation screen; it includes probable causes and suggested responses to the online messages. These entries do not provide detailed procedures but rather suggest courses of action that are described in detail in the relevant operating-system, warehouse, or tool documentation.

---

## Message listing

---

**RBA002F**      **Current database has been upgraded past this version of Red Brick Warehouse.**

**Cause:** The system table file is from a later Red Brick Warehouse version than expected. This problem occurs if the database has been upgraded to a new version, and the user tries to access it using an old version of Red Brick Warehouse.

**Response:** Ensure that the version of Red Brick Warehouse being used matches the version used to upgrade the database.

---

**RBA003E**      **Operation not completed because of lock conflict and session has set locks nowait.**

**Cause:** The session has set locks NOWAIT, and the operation requires a lock that cannot be obtained immediately. The lock might be a system table lock, a table lock, or a segment lock.

**Response:** If the database is versioning, the lock conflict might be caused by the vacuum cleaner daemon, which reads the system tables from time to time during cleaning. Re-attempt the operation. If an ALTER TABLE operation has failed, you may have to use the ALTER TABLE RESUME or RESET operation to complete or undo the original operation.

---

**RBA004E**      **Operation cannot be completed because segment *seg\_name* is locked.**

---

**RBS005E**      **Cannot update the primary key column '*column\_name*' because it is referenced by a foreign key constraint.**

**Cause:** To ensure referential integrity, an UPDATE operation is not allowed on primary key columns that are referenced as the targets of foreign key constraints.

---

**RBS006S**      **Used parallel relation scan with *numprocs* scan tasks at query level *number*.**

**Cause:** The server determined that this query would benefit from parallel query execution of a relation scan, so it allocated the number of processes indicated to run in parallel.

---

**RBS007E**      **Child process *process\_id* exited unexpectedly with status *hex\_status*.**

**Cause:** A child task started for parallel query execution exited unexpectedly. This indicates an internal error in the server and should be reported to Customer Support.

**Response:** Note the value of the exit status and contact Customer Support.



---

**RBS008S**      **Used parallel STARjoin with *numprocs* join tasks and *numprocs* fetch tasks at query level *number*.**

---

**Cause:** The server determined that this query would benefit from parallel query execution, and it allocated the number of processes indicated for each phase of the algorithm.

---

**RBS009E**      **Display functions and OLAP functions cannot be used in the HAVING clause.**

---

**Cause:** The HAVING clause included a predicate that contained a RSQL display function or an OLAP function, or a column alias for such a function. These functions can be constrained only in the WHEN clause.

**Response:** Correct the error and resubmit the command.

---

**RBS010E**      **The table '*table\_name*' is not referenced in a FROM clause or as the target of an UPDATE statement.**

---

**Cause:** The table in the message was not specified in the FROM clause of a SELECT statement or as the target table in an UPDATE statement. This message is issued if a column reference is qualified by a table name, but that table is not listed in the statement. For example, the following statements produce this error:

```
SELECT * FROM TABLE1 WHERE TABLE2.COL  
= TABLE1.COL; UPDATE TABLE1 SET COL1=3  
WHERE TABLE1.COL = TABLE2.COL;
```

In both cases, the message will list TABLE2.

---

**RBA011E**      **The column '*column\_name*' is not defined in the table '*table\_name*'.**

---

---

**RBL012W**      **TMU operation will wait for the version log to become empty.**

---

**Cause:** The database backup and restore operations require the version log to be empty.

**Response:** Make sure the version log is clean.

---

**RBA013E**      **Aggregation function argument must not reference aggregation function.**

---

---

**RBA014E**      **Subqueries not allowed in WHEN clause.**

---

---

**RBS015W**      **Detaching segment *segment\_name* has invalidated index *index\_name* of table *table\_name*.**

---

**Cause:** An ALTER SEGMENT ... DETACH command was issued for an index segment that was not empty. Because data is not moved as the result of an ALTER SEGMENT statement, the index must be rebuilt.

**Response:** If possible, drop and recreate the index. Otherwise, perform a REORG operation.

---

**RBS016E**      **Referenced table *table\_name* has fewer total rows than the number of segments: *number\_of\_segments*.**

---

**Cause:** The segment specification for a STAR index in a CREATE STAR INDEX or ALTER SEGMENT ... ATTACH statement specified segments for a STAR index without specific range information. The automatic range information is generated by distributing the total possible number of rows in the referenced table evenly across the segments specified for the STAR index. The total possible number of rows is the product of the number of segments in the table times the MAXROWS PER SEGMENT value. In this case, the number of STAR index segments exceeds the total possible number of rows. Thus, at least one segment would always be empty.

**Response:** Either specify fewer segments for the STAR index or increase the size of the referenced table by attaching a new segment with ALTER SEGMENT ... ATTACH or by increasing the MAXROWS PER SEGMENT value with ALTER TABLE. Note that changing the size of the referenced table might require a REORG operation on the referencing table.

---

**RBS017E**      **Operation cannot be completed because an aggregate table is locked.**

**Cause:** The ALTER VIEW <view\_name> SET VALID command needs a write lock on the aggregate table(s) to set the validity. However, the aggregate table(s) is locked by some other process, possibly, as part of an update to the detail table, preventing this operation from completing.

**Response:** Ensure that no other process holds a lock on the aggregate table, and re-attempt the operation.

---

**RBA018E**      **Expression requires numeric operand.**

---

**RBA019E**      **Operands of comparison must have comparable datatypes.**

---

**RBA020E**      **Operands of BETWEEN must be comparable.**

---

**RBS021E**      **Table *table\_name* has no MAXROWS PER SEGMENT value to use for validation of STAR index segmentation.**

**Cause:** The segment specification for a STAR index in a CREATE STAR INDEX or ALTER SEGMENT ... ATTACH statement referenced a table that does not have a defined MAXROWS PER SEGMENT value. A STAR index is segmented by references to another table. The segment ranges must be validated with the defined MAXROWS PER SEGMENT value of the referenced table.

**Response:** Issue an ALTER TABLE command that specifies a MAXROWS PER SEGMENT value for the referenced table. This might require a REORG operation on the referencing table.

---

**RBS022E**      **Column reference in LIKE must be of type CHARACTER or VARCHAR.**

---

**RBS023E**      **Pattern in LIKE must be of type CHARACTER or VARCHAR.**

---

**RBS024E**      **ESCAPE must reference a single character value.**

---

**RBS025E**      **Update statements that modify segmenting columns cannot contain a FROM clause.**

**Cause:** The update assignment specification contains one or more segmenting columns of the table being updated in the left hand side of the assignment. Segmenting columns cannot be modified using FROM clause style updates.

---

**RBS026E**      **Duplicate names not allowed in FROM or USING clause.**

---

**RBL027E**      **To restore segment *segment\_name*, the segment must already exist in the database.**

**Cause:** A TMU RESTORE statement was issued for a segment that does not exist in the database. A segment can be restored only if it already exists in the database.

**Response:** Either do a full RESTORE operation or contact Customer Support.

---

**RBL028W**      **PSU '*path\_name*' is not known to belong to segment *segment\_name*.**

**Cause:** A PSU location in the backup did not match the PSU information in the system tables. This discrepancy could be the result of an ALTER SEGMENT ... CHANGE PATH command issued after the backup.

**Response:** Either do a full RESTORE operation or contact Customer Support.

---

**RBA029E**      **Aggregation functions not allowed in WHEN clause unless GROUP BY is present.**

---

**RBS030I**      **Child process *process\_id* returned informational message**  
*'child\_message'*.

**Cause:** A parallel query task process returned an informational message.

**Response:** None necessary.

---

**RBS031S**      **Child process *process\_id* returned statistics message** *'child\_message'*.

**Cause:** A parallel query task process returned a statistics message.

**Response:** None necessary.

---

**RBS032W**      **Child process *process\_id* returned warning message** *'child\_message'*.

**Cause:** A parallel query task process returned a warning message.

**Response:** Refer to the cause and response for the warning message contained in the child message text.

---

**RBS033E**      **Child process *process\_id* returned error message** *'child\_message'*.

**Cause:** A parallel query task process returned an error message.

**Response:** Refer to the cause and response for the message contained in the child message text.

---

**RBS034F**      **Child process *process\_id* returned fatal message** *'child\_message'*.

**Cause:** A parallel query task process returned an error message.

**Response:** Refer to the cause and response for the message contained in the child message text.

---

**RBS035E**      **Insufficient authority to SELECT from table *table\_name*.**

**Cause:** The user who issued the SELECT statement did not have the required authority. To select data from a table, a user must have ACCESS\_ANY authority, be a member of the

DBA system role, be the owner of the table, or have SELECT privilege for the table.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS036E**      **Illegal value for SET TEXTSIZE.**

**Cause:** A value was supplied with SET TEXTSIZE that was not within the valid range. Legal values are integers between 0 and 2147483647, inclusive.

**Response:** Re-issue the SET TEXTSIZE command with a legal value.

---

**RBS037E**      **No database has been opened.**

**Cause:** The server received a command that required an open database, but no database was open.

**Response:** Either open a database, or issue a non-database-specific command.

---

**RBS038E**      **Invalid segmentation method for a STAR index.**

**Cause:** A CREATE STAR INDEX command specified an invalid segmentation for a STAR index. STAR indexes must be segmented by REFERENCES.

**Response:** Correct the error and resubmit the command.

---

**RBA039E**      **When GROUP BY is present, the column in the select list, ORDER BY, HAVING, or WHEN condition must be a grouping column, aggregation function argument, or literal value.**

---

**RBS040E**      **A range value for references of foreign key *column\_name* equals or exceeds the MAXROWS PER SEGMENT value (*maxrows*) of the referenced table *table\_name*.**

**Cause:** The STAR index range specification in a CREATE STAR INDEX, ALTER SEGMENT ...

ATTACH, or ALTER SEGMENT ... RANGE statement specifies a row ID range value that is greater than or equal to the MAXROWS PER SEGMENT value for the corresponding referenced table. Recall that the first row ID of a table is 0, so valid range values are 0 to MAXROWS PER SEGMENT-1.

**Response:** Correct the segment range values and resubmit the command.

---

**RBS041E**      **Table *table\_name* could not be created. Maximum number of tables exceeded.**

**Cause:** The maximum number of tables per database (32,764) has been reached. In some cases, the maximum number of tables allowed could be less than 32,764.

---

**RBS042E**      **Segment *segment\_name* in the range specification does not belong to the table corresponding to the leading foreign key of the index.**

**Response:** Correct the segment name in the range specification and resubmit the command.

---

**RBS043E**      **ALTER SEGMENT *alter\_option* invalid for segment *segment\_name* because of the segmentation scheme.**

**Cause:** This error can arise in a number of situations. If you are trying to attach or detach a segment, the segmentation scheme does not allow it. If you are trying to change the range of a segment, the segmentation scheme does not allow it. If you are trying to segment a table or index by range, it is already segmented, and the segmentation scheme cannot be changed.

**Response:** You cannot perform this type of ALTER SEGMENT operation on this table or index.

---

**RBL044E**      **OFFLINE load of segment *segment\_name* not allowed because of the segmentation scheme.**

**Cause:** A LOAD DATA statement was issued to perform an offline load into a row data segment of a table that was not segmented by values. An offline load into a segment is allowed only when a SEGMENT BY VALUE clause is specified in the CREATE TABLE statement. Any other segmentation scheme (such as hash) prevents the use of offline load operations.

**Response:** Bring the segment online and resubmit the command.

---

**RBS045E**      **Change range or attach of segment *segment\_name* requires that segment *segment\_name* be online.**

**Cause:** An ALTER SEGMENT ... RANGE or ATTACH statement specified an offline segment. Attaching a new segment or changing the range of an existing segment requires checking for data in the segment that would need to be moved. This check is not possible if the segment is offline.

**Response:** Bring the indicated segment online and resubmit the command.

---

**RBA046E**      **AVG requires one argument.**

---

**RBA047E**      **MAX requires one argument.**

---

**RBA048E**      **MIN requires one argument.**

---

**RBA049E**      **SUM requires one argument.**

---

**RBA050E**      **COUNT requires one argument.**

---

**RBS051W**      **Change range for segment *segment\_name* has invalidated index *index\_name* of table *table\_name*.**

---

**Cause:** An ALTER SEGMENT ... RANGE command was issued for an index segment, and the new boundary required that values move from one segment to another. Because data is not moved during an ALTER SEGMENT operation, the index must be rebuilt.

**Response:** If possible, drop and recreate the index. Otherwise, perform a REORG operation.

---

**RBA052F**      **Command line argument count incorrect.**

---

---

**RBS053E**      **Insufficient authority to CREATE object.**

---

**Cause:** The user who issued the CREATE statement did not have the required authority. To create a table, private macro, view, segment, role, or other database object, a user must have CREATE\_ANY or CREATE\_OWN authority, or be a member of the DBA or RESOURCE system roles.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS054E**      **Insufficient authority to DROP object.**

---

**Cause:** The user who issued the DROP statement did not have the required authority. To drop a table, private macro, view, segment, role, or other database object, a user must have DROP\_ANY authority, be a member of the DBA system role, have DROP\_OWN authority and own the object, or be a member of the RESOURCE system role and own the object.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBA055E**      **CUME requires one argument.**

---

---

**RBA056E**      **CUME argument must be numeric.**

---

---

**RBA057E**      **A scalar or table subquery in a WHERE or SET clause must have a single item in the select list.**

---

---

**RBA058E**      **Subquery returned more than one row.**

---

---

**RBS059E**      **Insufficient authority to GRANT privileges or authorities.**

---

**Cause:** The user who issued the GRANT statement did not have the required authority. To grant object privileges, a user must have GRANT\_ANY authority, have the GRANT\_OWN authority and own the object, be a member of the DBA system role, or be a member of the RESOURCE system role and own the object. To grant task authorities, a user must have ROLE\_MANAGEMENT authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS060E**      **Insufficient authority to REVOKE privileges or authorities.**

---

**Cause:** The user who issued the REVOKE statement did not have the required authority. To revoke object privileges, a user must have the REVOKE\_ANY authority, have the REVOKE\_OWN authority and own the object, be a member of the DBA system role, or be a member of the RESOURCE system role and own the object. To revoke task authorities, a user must have the ROLE\_MANAGEMENT authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS061W**      *user\_or\_role\_name* **does not have** *priv\_or\_auth.*

---

**Cause:** A REVOKE command was issued attempting to revoke a privilege, authority, or

role that had not been granted.

**Response:** None necessary.

---

**RBS062E**      **ORDER BY** column '*column\_name*' must be specified in the **GROUP BY** clause.

**Cause:** If an ORDER BY column is specified that is not in the SELECT clause and there is also a GROUP BY clause, then the ORDER BY column must also appear in the GROUP BY clause.

**Response:** Correct the error and resubmit the command.

---

**RBA063E**      Column name '*column\_name*' is ambiguous.

---

**RBS064E**      **ORDER BY** integer *number* is an invalid value.

**Cause:** The ORDER BY clause listed an invalid integer to specify the expression in the select list to be used for ordering. An integer is invalid if it is greater than the number of items in the select list or is less than one.

**Response:** Correct the error and resubmit the command.

---

**RBS065E**      User *user\_name* named in GRANT does not exist.

**Cause:** The GRANT statement specified a user name or role name that does not exist in the database.

**Response:** Correct the error and resubmit the command.

---

**RBS066E**      User *user\_name* named in REVOKE does not exist.

**Cause:** The REVOKE statement either specified a user name or role name that does not exist in the database, or it specified REVOKE CONNECT for a role name. The REVOKE CONNECT command only applies to user names.

**Response:** Correct the error and resubmit the

statement. To drop a role, use the DROP ROLE command.

---

**RBS067W**      GRANT CONNECT is changing the password of existing user '*user\_name*'.

---

**RBS068E**      CREATE SEGMENT failed because a PSU already exists in the segment.

**Cause:** The PSU specified in a CREATE SEGMENT statement could not be created because it already existed.

**Response:** Correct the error and resubmit the command.

---

**RBA069E**      RANK requires one argument.

---

**RBA070E**      Argument of RANK must be numeric.

---

**RBA071E**      RATIOREPORT requires one argument.

---

**RBS072E**      Invalid segmentation method for an index.

**Cause:** A CREATE INDEX or CREATE TABLE statement was issued with a segmentation scheme for the index that is not supported.

**Response:** Correct the error and resubmit the command.

---

**RBA073E**      In a SELECT statement without a GROUP BY clause, if an aggregation function is included in the select list, then all column references must be aggregation functions.

---

**RBA074E**      Argument of RATIOREPORT must be numeric.



---

**RBL075S**      **Task:** *id is spilling. rows rows spilled, index: name, row length: len.*

**Cause:** Sort process cannot complete in memory, spilling to disk will occur.

**Response:** Spilling could slow down sorting. Consider increasing INDEX TEMPSPACE THRESHOLD to avoid spilling.

---

**RBS076E**      **First argument of** *function\_name* **must be numeric.**

**Cause:** The function in the error message, either MOVINGAVG, MOVINGSUM or NTILE, must have a numeric value as its first argument.

**Response:** Ensure that the first argument to the function is numeric and resubmit the query.

---

**RBA077E**      **Second argument of** *function\_name* **must be an integer literal greater than zero.**

**Cause:** Invoking the named function supplied a value for the second argument that was not a positive integer literal.

**Response:** Replace the second argument to the function with an integer literal greater than zero and resubmit the command.

---

**RBA078E**      **Table that is referenced by foreign keys cannot be dropped.**

---

**RBS079E**      **Segmenting an index LIKE DATA is allowed only if the data is segmented by values and has the same number of segments as the index.**

**Cause:** A CREATE TABLE or CREATE INDEX statement contained a SEGMENT LIKE DATA clause for the index, but the data was not segmented by values or had a different number of segments specified.

**Response:** For a CREATE TABLE statement, change the statement to either segment the data by values and ensure that the number of primary

key index segments matches the number of data segments, or specify SEGMENT BY VALUES OF for the primary key index. For a CREATE INDEX statement, specify SEGMENT BY VALUES OF (for a B-TREE or TARGET index), specify SEGMENT BY REFERENCES OF (for a STAR index), or if the data is already segmented by values, change the number of index segments to match the number of data segments.

---

**RBA080F**      **An operating system error has occurred:** *os\_error*. **File:** *filename*  
**Line:** *lineno*

---

**RBA081E**      **Database file '*filename*' not found or insufficient privileges.**

---

**RBA082E**      **TERTILE requires one argument.**

---

**RBA083E**      **Argument of TERTILE must be numeric.**

---

**RBA084E**      **Numeric literal has too many digits.**

---

**RBA085E**      **Alphanumeric literal must not exceed** *number* **bytes.**

---

**RBA086F**      **Insufficient memory is available to continue execution. File:** *filename* **Line:** *lineno*

---

**RBA087E**      **Invalid syntax**  
*'stringstring==>string'.*

**Cause:** The command contained invalid syntax. An arrow marking the error appeared before the token that caused the error. At most, one token will appear after the error marker.

**Response:** Correct the error and resubmit the command.

---

**RBS088E**      **Display functions cannot be used as arguments of display or aggregation functions.**

**Cause:** An expression in the query contained a reporter function as an argument to another reporter function, or as an argument to an aggregation function. Such constructs are not legal.

---

**RBS089E**      **Query Aborted: Unable to reference the select list subquery and project the result in the outer query.**

**Cause:** The subquery in the select list is aliased in the WHERE clause or referenced in an aggregation and the input to the aggregation was empty.

**Response:** Rewrite the query and remove the reference to the subquery by recomputing the subquery (that is, replace the alias with the subquery text).

---

**RBS090E**      **The target table 'table\_name' is not specified in the USING clause.**

**Cause:** A USING clause was specified in a DELETE statement, but the table modified by the statement was not named in the USING clause. The target table must be named in the USING clause, if a USING clause is specified. If a correlation name is assigned to a table in the USING clause, this correlation name should be used when naming the target table.

**Response:** Correct the error and resubmit the command.

---

**RBS091E**      **The target table 'table\_name' is not specified in the FROM clause.**

**Cause:** A FROM clause was specified in an UPDATE statement, but the table modified by the statement was not named in the FROM clause. The target table must be named in the FROM clause, if a FROM clause is specified. If a correlation name is assigned to a table in the FROM clause, this correlation name should be used when naming the target table.

**Response:** Correct the error and resubmit the command.

---

**RBA092E**      **The table 'table\_name' is not present in the database.**

---

**RBS093E**      **INITSIZE of the first PSU of a segment must be at least 16.**

**Cause:** A CREATE SEGMENT command specified an INITSIZE smaller than 16 for the first PSU of the segment.

**Response:** Change the INITSIZE value of the first PSU to be greater than or equal to 16, and resubmit the command.

---

**RBA094E**      **The column 'column\_name' is not defined in any scope in which the column is referenced.**

---

**RBS095E**      **The unqualified reference to column 'column\_name' is ambiguous.**

**Cause:** An unqualified reference to the column named in the message was defined in more than one table, or more than once in the same table. This message occurs if columns of the same name are found in more than one table in a FROM clause, or if a joined table expression creates an intermediate table with more than one column having the same name.

**Response:** In order to clarify the reference, the column name must be qualified by the table from which the column is to be used. Alternatively, the column name can be changed by using a derived column list for tables in the FROM clause to give columns new names, or column aliases in the select list can be used to give columns unique names.

---

**RBA096E**      **Query is nested too deeply or contains too many subqueries.**

**Cause:** The query could not be processed because it either had at least one subquery that was nested too deeply or the total number of



subqueries was greater than the allowed maximum.

**Response:** Change the query to reduce either the nesting depth or the total number of subqueries.

---

**RBS097E** Target column of an assignment is qualified by the name of a table other than the table being updated.

**Cause:** The SET clause of an UPDATE statement contained at least one assignment where the target column name was qualified with a table name or correlation name. This table or correlation name does not identify the table being updated. Only columns belonging to the target table can be modified by the UPDATE statement.

**Response:** Correct the error and resubmit the statement.

---

**RBA098E** Illegal outer reference.

---

**RBS099E** The table alias 'table\_name' is already being used.

**Cause:** A table alias in the FROM clause is already used as a table or synonym name.

**Response:** Change the query to use a different table alias.

---

**RBS100E** Aggregation functions, RISQL display functions, and OLAP functions are not allowed in the WHERE clause.

**Cause:** The WHERE clause included an aggregation function, an OLAP function, or a RISQL display function, or a column alias for such a function. Predicates containing display or OLAP functions must be specified in the WHEN clause. Predicates containing aggregation functions must be specified in the HAVING clause.

**Response:** Correct the error and resubmit the statement.

---

**RBA102E** The list in an IN clause must consist of literals.

---

**RBA103E** Argument of SUM must be numeric.

---

**RBA104E** Argument of AVG must be numeric.

---

**RBS105E** SEGMENT BY REFERENCES cannot have a negative range value.

**Cause:** The segment range specification for a STAR index specified a negative value. Range values for STAR indexes are based on row IDs or, for multiple-segment indexes, on segment names and row IDs, so range values cannot be negative.

**Response:** Rewrite the statement with positive integers in the range values.

---

**RBA106E** Subsecond precision must be an integer between 0 and 6.

---

**RBA107E** Numeric precision must be an integer between 1 and 38.

---

**RBA108E** Numeric scale must be an integer between 0 and precision.

---

**RBS109E** The number of columns in the FOREIGN KEY specification does not match the number of columns in the PRIMARY KEY of the referenced table.

**Cause:** There must be one column defined in the FOREIGN KEY specification for each column defined in the PRIMARY KEY of the referenced table.

---

**RBA110E** Name defined by CREATE TABLE already exists.

RBA111E	Duplicate column names are not allowed. Duplicated name is <i>'column_name'</i> .	RBS116E	Column named in PRIMARY or FOREIGN KEY is not defined.
RBA112E	PRIMARY KEY, FOREIGN KEY, and UNIQUE columns must be NOT NULL.	RBS117E	PRIMARY INDEX IN segment specification supplied for a table that does not have a primary key index.
RBS113E	Referenced table name <i>'table_name'</i> is not defined.	<p><b>Cause:</b> A CREATE TABLE statement had a segment specification for a primary key index, but a primary key index was not created. A primary key index is not created for a table if the PRIMARY KEY clause is not included.</p> <p><b>Response:</b> Either add a PRIMARY KEY clause or remove the PRIMARY INDEX IN clause to the CREATE TABLE statement, and then resubmit the command.</p>	
RBS114E	The referenced columns in a FOREIGN KEY specification do not match the PRIMARY KEY of the referenced table.	RBS118E	SELECT DISTINCT with an ORDER BY clause requires all of the columns in the ORDER BY clause to be in the select list.
<p><b>Cause:</b> The PRIMARY KEY of the referenced table was identified in the FOREIGN KEY specification, but did not match the PRIMARY KEY defined for the table when it was created. The names of the columns must be the same, and they must appear in the same order. For example, the following statements would produce this error:</p> <pre>CREATE TABLE TAB1 (KEY1..., KEY2..., PRIMARY KEY (KEY1, KEY2)); CREATE TABLE TAB2 (K1..., K2..., FOREIGN KEY (K1, K2) REFERENCES TABLE TAB1 (KEY2, KEY1))</pre>		<p><b>Cause:</b> The ORDER BY clause of a SELECT statement with the DISTINCT keyword included columns that were not in the select list.</p> <p><b>Response:</b> Include all columns in the ORDER BY clause in the select list.</p>	
RBS115E	Only one PRIMARY KEY declaration allowed per table.	RBA119E	Length must be a positive integer.
<p><b>Cause:</b> Two or more PRIMARY KEY clauses were supplied in a CREATE TABLE statement.</p> <p><b>Response:</b> Determine the correct declaration for the PRIMARY KEY clause and remove the other declaration(s).</p>		RBS120E	Name must not exceed 128 bytes.
		<p><b>Cause:</b> The object name given exceeded the maximum number of bytes.</p> <p><b>Response:</b> Select an object name 128 bytes or less.</p>	
RBA121E	Illegal duplicate FOREIGN KEY specification.	<p><b>Cause:</b> The table definition contained a duplicate FOREIGN KEY specification. Two FOREIGN KEYS contain the same columns, in the same order, and reference the same table.</p>	

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<b>RBA122E</b>	<b>Maximum number of foreign keys exceeded.</b>
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---

<b>RBS123E</b>	<b>Duplicate constraint names are not allowed. Duplicated name is 'constraint_name'.</b>
----------------	--

**Cause:** The indicated constraint name was already defined in the database or already used in the statement. Constraint names must be unique within the database.

**Response:** Change the name of the constraint and resubmit the statement.

---

<b>RBA124E</b>	<b>Referencing and referenced columns in FOREIGN KEY clause must have same datatype and length.</b>
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<b>RBS125E</b>	<b>Referenced table 'refd_table' does not have a PRIMARY KEY.</b>
----------------	---

**Cause:** A table referenced in a FOREIGN KEY clause must have a PRIMARY KEY defined. If the referenced table is a synonym, then the base table of the synonym must have a PRIMARY KEY.

---

<b>RBA126W</b>	<b>Date or Time value contains extraneous characters.</b>
----------------	---

---

**Cause:** Data content error. This error could be caused by having an invalid mask specified in the TMU, or by having a setting for DATEFORMAT that does not match the data.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.

---

<b>RBA127E</b>	<b>'time_value' is not a valid time-stamp value; it contains extraneous characters.</b>
----------------	---

---

**Cause:** Data content error. This error could be caused by having an invalid mask specified in the TMU or by having a setting for DATEFORMAT that does not match the data.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.

---

<b>RBA128E</b>	<b>'time_value' is not a valid time-stamp value. No date or time values found.</b>
----------------	--

---

**Cause:** Data content error. This error could be caused by having an invalid mask specified in the TMU or by having a setting for DATEFORMAT that does not match the data.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.

---

<b>RBA129E</b>	<b>Query resulted in division by zero.</b>
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<b>RBA130E</b>	<b>A join path defined by foreign key references must exist between every pair of tables in the FROM clause.</b>
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<b>RBA131E</b>	<b>Operand of LIKE must be a single column reference.</b>
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<b>RBA132F</b>	<b>Internal error in function: 'string'.</b>
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<b>RBA133E</b>	<b>FROM can reference only one table when a system table is referenced.</b>
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<b>RBA134E</b>	<b>RESET BY column must be in ORDER BY column list.</b>
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<b>RBA135E</b>	<b>BREAK BY column must be in ORDER BY column list.</b>
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<b>RBA136E</b>	<b>SUMMING column must be numeric.</b>
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<b>RBA137E</b>	<b>ORDER BY column cannot contain a display function.</b>
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---

---

**RBS138E**      **Select list column may only appear once in SUMMING list.**

**Cause:** The SUMMING list in a BREAK BY specification contained more than one reference to the same select list column.

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**RBS139E**      **SUMMING column must appear in SELECT list.**

**Cause:** Columns in the SUMMING subclause of a BREAK BY clause must appear in the select list. The erroneous reference was either a column reference that did not appear in the select list, or an integer reference that was either less than one or greater than the number of columns in the select list.

---

**RBS140E**      **SUMMING column must not also be a break column.**

**Cause:** A column specified in the SUMMING clause is either explicitly or implicitly specified in the BREAK BY clause. All columns in the ORDER BY clause that precede the explicitly named BREAK BY column are implicitly defined as break columns. Neither explicit nor implicit break columns can be referenced in the SUMMING clause.

---

**RBA141E**      **SUMMING column in BREAK BY clause cannot contain a display function.**

---

**RBL142W**      **All indexes for table *table\_name* have been marked invalid; review recovery procedures before continuing.**

**Cause:** This message reports the result of a TMU segment RESTORE operation that was run with the FORCE option. A forced segment restore might cause internal discrepancies within the database, so all indexes are marked invalid to force a REORG operation.

**Response:** Review the Table Management Utility Reference Guide's procedures for recovering from a forced restore operation. You should run a CHECK TABLE statement to test

and synchronize internal structures within the indicated table, and then use a REORG operation to synchronize the table with associated indexes. For additional assistance, contact Customer Support.

---

**RBA143E**      **DISTRIBUTED break by calculations are no longer supported.**

**Cause:** Support for DISTRIBUTED break by calculations was removed in Red Brick Warehouse V5.1.

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**RBA144E**      **Display functions cannot specify DISTINCT.**

---

**RBA145F**      **Login user name or password is invalid.**

---

**RBA146E**      **Operation cannot be completed because of possible deadlock.**

**Cause:** The current operation would have waited on a lock while holding a critical resource lock, possibly resulting in deadlock.

**Response:** Reissue the command.

---

**RBA147F**      **Server error: '*string*tring.**

---

**RBS148E**      **ALTER SEGMENT *alter\_option* requires segment *segment\_name* to be unattached.**

**Cause:** The ALTER SEGMENT attach command was rejected because the segment was already attached to a table or index.

**Response:** Verify that you specified the correct segment name. Correct the statement and resubmit it.

---

**RBS149E**      **Column numbers in a RESET BY reference list must be between 1 and *column\_num*.**

**Cause:** The query contained a complex RESET <reference\_list> BY <order\_reference> clause.

The <reference\_list> contained an integer intended to reference a column in the select list, but the integer was either less than 1 or greater than the number of columns in the select list.

**Response:** Change the reference and resubmit the query.

---

**RBA150E**      **RESET column must reference a display function.**

---

**RBA151E**      **Maximum size of CHARACTER or VARCHAR column exceeded.**

---

**RBS152E**      **ALTER SEGMENT *alter\_option* requires segment *segment\_name* to be attached.**

**Cause:** An ALTER SEGMENT statement with an option valid only for attached segments was issued for an unattached segment.

**Response:** Attach the segment and resubmit the command.

---

**RBA153F**      **Error while writing file *file\_name*.**

---

**RBA154E**      **A database file has been corrupted.**

---

**RBS155E**      **'*path\_name*' appears more than once in the CREATE SEGMENT statement.**

**Cause:** A CREATE SEGMENT statement included duplicate PSU names.

**Response:** Rewrite the statement to use unique PSU names and resubmit it.

---

**RBA156E**      **UPDATE operation tried to move data to segment *segment\_name*, which is full.**

---

**Cause:** During an UPDATE operation on a table, the segment ranges required that a row be moved from one segment to another segment. However, the new segment did not have enough space for the row. The operation might have

partially updated the table.

**Response:** Use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. Because some data might have been updated with the last UPDATE statement, and to avoid updating the same rows twice, think carefully before resubmitting the UPDATE statement.

---

**RBS157E**      **Cannot mix range values that specify segment names with those that omit segment names.**

---

**Cause:** At least one value in the range specification contained a segment name and at least one value omitted the segment name. All range values must use the same syntax. If a segment name is specified in one range value, a segment name must be specified in all range values.

**Response:** Correct the range values and resubmit the command.

---

**RBA158E**      **SUPPRESS BY column must reference a column in select list.**

---

**RBA159E**      **Table referenced by FOREIGN KEY does not exist.**

---

**RBS160E**      **ALTER SEGMENT *alter\_option* requires segment *segment\_name* to be online.**

**Cause:** An ALTER SEGMENT statement with an option valid only for online segments was issued for an offline segment.

**Response:** Bring the segment online and resubmit the command.

---

**RBA161E**      **SUPPRESS BY column must not reference a display function.**

---

**RBS162E**      **Invalid macro definition; missing right parenthesis.**

---

---

**RBS163E**      **Name defined by CREATE  
MACRO already exists.**

---

**RBS164E**      **Macro *macro\_name* does not exist.**

**Cause:** A DROP MACRO or ALTER MACRO statement specified a macro name that does not exist in the database.

**Response:** Verify that you specified the correct macro name. Remember that when referring to a macro in DROP MACRO or ALTER MACRO, the type of the macro (PUBLIC, TEMPORARY, or private) must match the type with which the macro was created. Correct and resubmit the statement.

---

**RBS165W**      **EXPAND width *value* is invalid.  
Default value *value* will be used.**

---

**Cause:** The EXPAND statement was given an output width that was out of range. The value must be between 20 and 1024, inclusive.

---

**RBS166E**      **Macro '*macro\_name*' cannot be  
recursively expanded.**

---

---

**RBA167E**      **Argument count mismatch for  
macro '*macro\_name*'. Expected  
*number* and got *number*.**

---

---

**RBS168E**      **Value *value* would overflow or  
underflow the column with type  
*data\_type*.**

---

---

**RBA169E**      **SUPPRESS BY columns must not  
reference a literal.**

---

---

**RBL170E**      **LOAD DATA UPDATE mode  
requires UPDATE privilege on  
table.**

---

**Cause:** A LOAD operation was attempted in UPDATE or UPDATE AGGREGATE mode, but the user did not have the UPDATE privilege on the target table.

**Response:** Either change the mode used in the

LOAD DATA statement or obtain the required object privileges.

---

**RBA171E**      **Only the COUNT function takes  
the '\*' argument.**

---

---

**RBS172E**      **Cannot insert USER into a DATE,  
TIME, or TIMESTAMP column.**

---

**Cause:** An INSERT into a DATE, TIME, or TIMESTAMP column failed because the USER function returns a datatype that is incompatible with a DATE, TIME, or TIMESTAMP datatype.

**Response:** Correct and resubmit the statement.

---

**RBS173E**      **Cannot insert a character value  
into a DATE, TIME, or  
TIMESTAMP column.**

---

**Cause:** An INSERT into a DATE, TIME, or TIMESTAMP column failed because the character value is incompatible with a DATE, TIME, or TIMESTAMP datatype.

**Response:** Correct and resubmit the statement.

---

**RBA174E**      **DELETE statement FROM clause  
must contain a single table.**

---

---

**RBS175E**      **Table or synonym in FROM  
clause of a DELETE statement  
must not be referenced in a  
subquery.**

---

**Cause:** The table named in the FROM clause of the DELETE statement was also named in a subquery in the WHERE clause. The same base table cannot be referenced in both the FROM and WHERE clauses.

---

**RBS176E**      **Table or synonym in an UPDATE  
statement must not be referenced  
in a subquery.**

---

**Cause:** The target table in the UPDATE statement cannot be referenced more than once in the statement.

RBA177E	Column that is set to NULL in UPDATE must allow NULLs.
RBA178E	An aggregation function, RISQL display function, or OLAP function is not allowed in the SET clause of an UPDATE statement.
RBA179E	A destination column name must not be duplicated in the SET clause of an UPDATE statement.
RBA180E	A CHARACTER or VARCHAR column in an UPDATE or INSERT statement must be set to an equal or shorter-length character value.
RBA181E	Numeric column ' <i>column_name</i> ' in an UPDATE or INSERT statement must be set to an exact numeric value.
RBA182E	Floating point column ' <i>column_name</i> ' in an UPDATE or INSERT statement must be set to a numeric value.
RBA183E	A CHARACTER or VARCHAR column in an INSERT or ALTER TABLE statement must be set to an equal or shorter-length character value.
RBA184E	An exact numeric column in an INSERT or ALTER TABLE statement must be set to an exact numeric value.
RBA185E	A floating point column in an INSERT or ALTER TABLE statement must be set to a numeric value.

RBA186E	Value in INSERT or UPDATE statement must not have more significant digits than target column.
RBA187E	Number of source and destination columns in INSERT statement must be the same.
RBA188E	Column in INSERT that is declared NOT NULL must have a source that is not NULL.
RBS189E	A system generated foreign key constraint name cannot be used as the segmenting column of a STAR index.
RBS190E	Column ' <i>column_name</i> ' in table ' <i>table_name</i> ' already has an index that is under construction.
RBS191E	Cannot insert a numeric value into a DATE, TIME, or TIMESTAMP column.

**Cause:** The segmenting column specified in a CREATE STAR INDEX statement is a system-generated name. The segmenting column must either be a user-defined constraint name or the name of the first column in the CREATE STAR INDEX key list.

**Response:** Correct and resubmit the statement.

**Cause:** A CREATE INDEX command is currently in process for the specified column and table.

**Response:** Correct and resubmit the statement. If the process creating the index has terminated without marking the index as complete, then the DBA must drop that index.

**Cause:** An INSERT of a numeric into a DATE, TIME, or TIMESTAMP column failed because the numeric datatype is incompatible with a DATE, TIME, or TIMESTAMP datatype.

**Response:** Correct and resubmit the statement.



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RBA192E	Multiple join paths between tables are not supported.
---------	---

---

RBA193E	Macro definition exceeds maximum column size.
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**Cause:** This macro exceeds the 1024-byte column limit, and cannot be stored in the TEXT column in the RBW\_MACROS system table.

**Response:** Rewrite the macro to shorten it or create multiple macros and nest them.

---

RBA194E	The string ' <i>string</i> ' does not contain a valid date value.
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RBA195E	The string ' <i>string</i> ' does not contain a valid time value.
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---

RBA196E	Number of columns in VIEW definition must equal number in select list.
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RBA197E	Name defined by CREATE VIEW already exists.
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RBA198E	VIEW definition must supply column names when select list contains unnamed columns or columns with duplicate names.
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RBA200E	SUPPRESS BY is not allowed in VIEW definition.
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---

RBS201E	INSERT, UPDATE or DELETE privileges cannot be granted on views.
---------	---

---

**Cause:** A GRANT statement attempted to grant one or more ALL, INSERT, UPDATE and DELETE privileges on a view. Only a SELECT privilege can be granted on a view.

**Response:** Grant only a SELECT privilege on a view.

---

RBS202E	Attach segment requires an attachment range.
---------	--

---

**Cause:** An ALTER SEGMENT ... ATTACH statement with no range specification was issued for the segment of a table or primary key index. Segment operations that attach a segment without a range specification are valid only for STAR indexes.

**Response:** Correct the statement by adding a RANGE clause and resubmit it.

---

RBA203E	DROP TABLE must reference a base table or a temporary table.
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RBA204E	The view <i>view_name</i> is not present in the database.
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RBA205E	Only a single table is allowed in the FROM clause when a grouped view is referenced.
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RBA206E	HAVING not allowed in SELECT from a grouped view.
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RBA207E	GROUP BY not allowed in SELECT from a grouped view.
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RBA208E	Only a base table or synonym can be the target of an INSERT, UPDATE, or DELETE statement.
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RBA209I	Rows inserted: <i>number</i> .
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RBA210W	Rows discarded due to duplicate key values: <i>number</i> .
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---

RBS211I	Deleted <i>number</i> rows from <i>table_name</i> .
---------	---

---

**Cause:** This message provides the number of rows deleted from a table.

**Response:** None necessary.



RBA212I	Rows updated: <i>number</i> .
RBS213E	Cannot insert a DATETIME into a non DATETIME column.
RBS214E	Parallel index creation must be done on a single table.
<b>Cause:</b> A parallel CREATE INDEX command can operate on only one table, but more than one table was specified in the statement. <b>Response:</b> Correct and resubmit the statement.	
RBA215E	User does not have INSERT privilege on table <i>table_name</i> .
RBA216E	User does not have UPDATE privilege on table <i>table_name</i> .
RBA217E	User does not have DELETE privilege on table <i>table_name</i> .
RBL218E	LOAD DATA REPLACE mode requires DELETE and INSERT privileges on table.
<b>Cause:</b> A LOAD operation was attempted in REPLACE mode, but the user did not have both DELETE and INSERT privileges on the target table. <b>Response:</b> Specify another mode in the LOAD DATA statement or obtain the necessary object privileges.	
RBL219E	LOAD DATA MODIFY mode requires UPDATE and INSERT privileges on table.
<b>Cause:</b> A LOAD operation was attempted in MODIFY or MODIFY AGGREGATE mode, but the user did not have both UPDATE and INSERT privileges on the target table. <b>Response:</b> Specify another mode in the LOAD DATA statement or obtain the necessary object privileges.	

RBL220E	LOAD DATA APPEND or INSERT mode requires INSERT privilege on table.
<b>Cause:</b> A LOAD operation was attempted in APPEND or INSERT mode, but the user did not have INSERT privilege on the target table. <b>Response:</b> Obtain the necessary object privileges.	
RBS221E	Parallel index creation must be done in different segments.
<b>Cause:</b> The same segment was specified in more than one index specifier in the CREATE INDEX statement; a segment can be used for only one index. <b>Response:</b> Correct and resubmit the statement.	
RBS222E	The index name ' <i>index_name</i> ' is not defined.
<b>Cause:</b> A DROP INDEX, ALTER INDEX, or ALTER SEGMENT statement specified an index that does not exist. <b>Response:</b> Correct and resubmit the statement.	
RBS225E	Name ' <i>index_name</i> ' defined by CREATE INDEX already exists.
<b>Cause:</b> An index name must be unique in a database. A CREATE INDEX statement specified an index name that conflicted with the name of an existing index. <b>Response:</b> Correct and resubmit the statement.	
RBS226E	Too many column or constraint names in the key definition of index ' <i>index_name</i> '.
<b>Cause:</b> The number of column or constraint names in the key list given in the CREATE INDEX statement exceeded 256. <b>Response:</b> Correct and resubmit the statement.	

---

**RBS227E**      **Name '*segment\_name*' already exists.**

**Cause:** A segment name must be unique in a database. The CREATE SEGMENT or ALTER SEGMENT ... RENAME statement specified a segment name that was the same as an existing segment name.

**Response:** Correct and resubmit the statement.

---

**RBA228E**      **MAXSIZE must be a nonzero positive integer.**

---

**RBA229E**      **Segment *segment\_name* is not present in the database.**

**Cause:** A DROP SEGMENT, ALTER SEGMENT, CHECK TABLE, or CHECK INDEX statement or a segment-related TMU operation was specified for a segment that does not exist.

**Response:** Correct and resubmit the statement.

---

**RBS230E**      **Segment *segment\_name* is already attached to a table or index.**

**Cause:** A CREATE TABLE or CREATE INDEX statement specified a segment that was already attached to another table or index.

**Response:** Correct and resubmit the statement.

---

**RBA231W**      **One or more files in the segment cannot be deleted.**

---

**RBS232E**      **'*path\_name*' is not a valid PSU.**

**Cause:** A CREATE SEGMENT or ALTER SEGMENT statement specified a PSU location that was not valid. This can occur if the path contains directories that do not exist.

**Response:** Correct and resubmit the statement.

---

**RBS233E**      **The segment name '*seg\_name*' in the RANGE clause does not identify a segment belonging to the table referenced by the segmenting column.**

**Cause:** The STAR index range specification in a CREATE STAR INDEX, ALTER SEGMENT ... ATTACH, or ALTER SEGMENT ... RANGE statement specified a segment name that was not attached to the referenced table identified through the segmenting column.

**Response:** Correct and resubmit the statement.

---

**RBS234E**      **Index '*index\_name*' cannot be built because segment *segment\_name* is full or the filesystem is full.**

**Cause:** While creating an index, a segment or the filesystem ran out of space.

**Response:** If a default segment becomes full, create the index in a named segment. First, create a segment, specifying the size and location of the PSUs, then specify the named segment in the CREATE INDEX statement. If a named segment becomes full, use the ALTER SEGMENT command to increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the filesystem becomes full while creating the index in a default or named segment, increase disk space or delete unnecessary files.

---

**RBA235E**      **Data cannot be inserted into the table because segment *segment\_name* is full or the filesystem is fullstring**

**Cause:** During an SQL INSERT or TMU LOAD operation, all space available for new data was used.

**Response:** If the segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the filesystem is full, increase disk space or delete unnecessary files.

---

**RBA236E**      **Data cannot be inserted into the table because an index segment *segment\_name* is full or the filesystem is fullstring**

**Cause:** During an SQL INSERT or LOAD operation, the space available for indexes was exhausted.

**Response:** If the segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the filesystem is full, increase disk space or delete unnecessary files.

---

**RBS237E**      **Name defined by CREATE SYNONYM already exists.**

**Cause:** A CREATE SYNONYM statement tried to create a new synonym, but the synonym name was already in use for another table, synonym, or view.

**Response:** Choose a different synonym name or remove the existing object with that name.

---

**RBS238E**      **CREATE SYNONYM must reference a base table.**

**Cause:** A CREATE SYNONYM statement specified an object that was not a base table. Synonyms can reference only base tables; they cannot reference temporary tables, views, other synonyms, or model tables.

**Response:** Rewrite the CREATE SYNONYM statement to reference a base table and resubmit it.

---

**RBS239E**      **Insufficient authority to CREATE SYNONYM.**

**Cause:** The user who issued the CREATE SYNONYM command did not have the required authority. To create a synonym, a user must be a member of the DBA system role, have CREATE\_ANY authority, or own the table.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS240E**      **Segment *segment\_name* must be synchronized with its table before ALTER SEGMENT *alter\_operation* can be performed.**

**Cause:** An ALTER SEGMENT ... ONLINE or DETACH statement specified a segment that was out of synchronization with its table as a result of an offline load. The segment must be synchronized or cleared before it can be set online or detached.

**Response:** Synchronize or clear the segment and then resubmit the command.

---

**RBA241E**      **LOCK must reference a base table.**

---

**RBS242E**      **MAXSEGMENTS value must be a non-zero positive integer.**

**Cause:** A value was supplied in the MAXSEGMENTS clause that was not in the valid range. Legal values are non-zero positive integers.

**Response:** Submit the CREATE or ALTER TABLE statement with a legal MAXSEGMENTS value.

---

**RBA243E**      **INSERT, UPDATE, or DELETE privilege is required for LOCK.**

---

**RBA244E**      **LOCK failed because the table is locked by another process.**

---

**RBS245E**      **Table named in UNLOCK is not locked by this session.**

**Cause:** User issued UNLOCK with no corresponding LOCK statement.

---

**RBA246E**      **Only one table can be locked at a time.**

---

**RBA247E**      **A locked table cannot be dropped.**

---

**RBS248E**      **Object 'name' is not owned by user 'user\_name'.**

---

**Cause:** A table, view, synonym, or model was qualified with a user name that was not the owner of the object.

**Response:** Either use the correct user for the qualified name or do not qualify the name.

---

**RBA249E**      **Entry in VALUE list must be a numeric or string literal.**

---

---

**RBA250E**      **There is not enough memory available to execute the statement.**  
**File:** *filename* **Line:** *lineno*

---

---

**RBA251E**      **Table or view that is referenced by other views cannot be dropped.**

---

---

**RBS253E**      **The synonym 'synonym\_name' is not present in the database.**

---

**Cause:** A DROP SYNONYM or ALTER SYNONYM statement did not reference a valid synonym.

**Response:** Ensure that you supply the DROP SYNONYM or ALTER SYNONYM command with a synonym. Query the RBW\_SYNONYMS table to list existing synonym names.

---

**RBA254S**      **Total table fetches:** *number*. **Total successes:** *number*.

---

---

**RBA255S**      **No rows returned.**

---

---

**RBA256I**      *number* **rows returned.**

---

---

**RBA257E**      **Duplicate value in UNIQUE column detected while creating index.**

---

**Cause:** There was at least one duplicate value in the column. Because the system checks for uniqueness only on columns being indexed, there is no guarantee that a column without an index

that is declared UNIQUE in the CREATE TABLE statement contains unique values. The index is not created.

---

**RBS258E**      **Range specification for segment 'seg\_name' is empty.**

---

**Cause:** The STAR index range specification in a CREATE STAR INDEX statement specifies a segment name/row number combination that equals the minimum possible key value. There are no possible values that are greater than or equal to MIN and less than the specified range value. Thus, the segment created would always be empty.

**Response:** Correct and resubmit the statement.

---

**RBS259W**      **Parallel index creation of 'index\_name' generated the following message 'string**

---

**Cause:** A message was generated during the parallel index creation. The message is either informational or indicative of a failure during creation of the parallel index.

**Response:** Check the message and take whatever action is necessary.

---

**RBA264E**      **Different outer join syntax styles cannot be mixed within the same query.**

---

---

**RBA265E**      **Index key is too large.**

---

**Cause:** The total length of all the columns in the index was too large.

**Response:** Define the index with fewer or narrower columns or with a larger fill factor.

---

**RBS266E**      **Column 'column\_name' in HAVING clause must also be in GROUP BY.**

---

**Cause:** A column reference in a HAVING clause that is not part of an aggregate expression must be specified in a GROUP BY clause.

---

**RBA267W**      **Rows were discarded due to referential integrity failure:**  
*number.*

---

**RBS268W**      **Rows were not updated because null values violated constraints:**  
*number.*

**Cause:** UPDATE operation attempted to insert NULL values into one or more columns that do not allow NULL values.

---

**RBS269E**      **HAVING CLAUSE is valid only if there is a GROUP BY clause or aggregation.**

**Cause:** If there is no GROUP BY clause or aggregation in the SELECT CLAUSE, a HAVING CLAUSE is invalid even when there is no column reference in the HAVING CLAUSE.

---

**RBS270E**      **The GROUP BY clause may not contain aggregations, RISQL display functions, or OLAP functions.**

**Cause:** Remove GROUP BY expressions that contain aggregations, RISQL display functions, or OLAP functions and resubmit the statement.

---

**RBS271E**      **Time value '*time\_value*' contains an AM value when the hour is greater than 12.**

**Cause:** The AM time modifier is valid only when an hour is less than or equal to twelve.

**Response:** Correct and resubmit the value.

---

**RBL272E**      **Cannot use segment *segment\_name* because it is not offline.**

**Cause:** A LOAD DATA statement was issued to perform either an offline load or a SYNCH operation on a segment that was not offline. These operations can be performed only on offline segments.

**Response:** Issue an ALTER SEGMENT command to take the segment offline, then

perform the SYNCH or LOAD operation.

---

**RBL273E**      **Cannot use segment *segment\_name* because the segment is damaged.**

**Cause:** A TMU operation for a segment (offline LOAD, SYNCH, UNLOAD) named a specific segment, but the requested segment is damaged and cannot be used until it is repaired.

**Response:** Repair the segment, bring it online (this will recheck for damage), then resubmit the command.

---

**RBS274E**      **INSERT, UPDATE, and DELETE are not allowed on system tables.**

---

**RBS275E**      **Range values must specify segment names.**

**Cause:** Segment names are required in the range specification of a STAR index when the MAXSEGMENTS value of the table referenced by the segmenting column is greater than 1.

**Response:** Correct and resubmit the statement.

---

**RBS276E**      **Maximum row length for table exceeded.**

**Cause:** A CREATE TABLE or CREATE TEMPORARY TABLE statement defines a table row that is too long.

**Response:** Reduce the row size by creating the table with fewer or narrower columns.

---

**RBS277E**      **LOCK not allowed on system tables.**

**Cause:** User submitted a LOCK command on a system table for execution.

**Response:** Locks on system tables are not supported.

---

**RBS278F**      **A database file has the wrong version number.**

**Cause:** A database that contained an invalid version number was opened. This message is

returned whenever the server version is older than the database.

**Response:** Drop the table and its segments, and reload the data.

---

**RBA279E      Operating system denied read  
access for index file 'file\_name'.**

**Cause:** The operating system was denied read access to an index file.

**Response:** Check the file permissions on the database files, and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must have read and write access for the owner of the Red Brick Warehouse server executable file.

---

**RBA280E      Operating system denied  
read/write access for index file  
'file\_name'.**

**Cause:** The operating system denied read and write access to an index file.

**Response:** Check the file permissions on the database files, and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.

---

**RBA281E      Operating system denied read  
access for data file 'file\_name'.**

**Cause:** The operating system denied read access to a data file.

**Response:** Check the file permissions on the database files, and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse executable file.

---

**RBA282E      Operating system denied  
read/write access for data file  
'file\_name'.**

**Cause:** The operating system denied read and write access to a data file.

**Response:** Check the file permissions on the database files, and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.

---

**RBA283F      Operating system denied  
read/write access for database  
system file 'file\_name'.**

**Cause:** The operating system denied read and write access to a database system file.

**Response:** Check the file permissions on the database files, and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.

---

**RBA284E      Operating system denied read  
access for file 'file\_name'.**

**Cause:** The operating system denied read access to a file.

**Response:** Check the file permissions on the file, and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.

---

**RBA285E      Operating system denied  
read/write access for file  
'file\_name'.**

**Cause:** The operating system denied read and write access to a file.

**Response:** Check the file permissions on the file, and check the owner and setuid bit on the



Red Brick Warehouse server executable file (rbwsvr). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.

---

**RBA286E**      **Index file '*file\_name*' was not found.**

**Cause:** The specified file was missing from the database or segment directory. This could occur because an operating system command was issued to delete the file.

---

**RBA287E**      **Data file '*file\_name*' was not found.**

**Cause:** The specified file was missing from the database or segment directory. This could occur because an operating system command was issued to delete the file.

---

**RBS288E**      **GRANT not allowed on system tables.**

**Cause:** User submitted a GRANT command on a system table.

**Response:** The GRANT command is not supported on system tables.

---

**RBS289E**      **REVOKE not allowed on system tables.**

**Cause:** User submitted a REVOKE command on a system table.

**Response:** The REVOKE command is not supported on system tables.

---

**RBS290W**      **Year specified in '*string*' is invalid. Expected format is 'YYYY-MM-DD'.**

**Cause:** An ANSI date value must be in the form 'YYYY-MM-DD'. The specified year value was not four digits followed by a dash (-).

**Response:** Correct the value and resubmit the statement.

---

**RBS291W**      **Month specified in '*string*' is invalid. Expected format is 'YYYY-MM-DD'.**

**Cause:** An ANSI date value must be in the form 'YYYY-MM-DD'. The specified month value was not two digits followed by a dash (-).

**Response:** Correct the value and resubmit the statement.

---

**RBS292W**      **Day specified in '*string*' is invalid. Expected format is 'YYYY-MM-DD'.**

**Cause:** An ANSI date value must be in the form 'YYYY-MM-DD'. The specified day value was not two digits.

**Response:** Correct the value and resubmit the statement.

---

**RBS293W**      **Hour specified in '*string*' is invalid. Expected format is 'HH:MM:SS[.fraction]'.**

**Cause:** An ANSI time value must be in the form 'HH:MM:SS[.fraction]'. The specified hour value was not two digits followed by a colon (:).

**Response:** Correct the value and resubmit the statement.

---

**RBS294W**      **Minute specified in '*string*' is invalid. Expected format is 'HH:MM:SS[.fraction]'.**

**Cause:** An ANSI time value must be in the form 'HH:MM:SS[.fraction]'. The specified minute value was not two digits followed by a colon (:).

**Response:** Correct the value and resubmit the statement.

---

**RBS295W**      **Second specified in '*string*' is invalid. Expected format is 'HH:MM:SS[.fraction]'.**

**Cause:** An ANSI time value must be in the form 'HH:MM:SS[.fraction]'. The specified second value was not two digits followed by an optional decimal point(.).

**Response:** Correct the value and resubmit the statement.

---

**RBS296W**      **Second fraction specified in 'string' is invalid. Expected format is 'HH:MM:SS[.fraction]'** with a fraction no more than six digits.

**Cause:** An ANSI time value must be in the form 'HH:MM:SS[.fraction]'. The specified second fraction value was not zero to six digits.

**Response:** Correct the value and resubmit the statement.

---

**RBL297F**      **TAR tapes must have a block size that is a multiple of *number* bytes.**

---

**RBL298I**      **Mount the tape on device *device\_name*. Press Return when ready, or 'q' to quit.**

**Cause:** A TMU operation referenced a tape drive, but the drive was not ready with a mounted tape.

**Response:** Mount a tape on the indicated tape drive and make the drive ready for use. If you do not wish to continue with the operation, enter "q" to quit.

---

**RBL299I**      **Load the next tape for file *file\_name* (Expecting file section *number*.)**

**Cause:** Either the TMU has reached the end of a tape volume (reel) while reading the indicated file, or the user rejected a tape because of a file section sequence mismatch. If a multi-volume tape set is to be processed in ascending sequence, the message indicates the section number of the file to be mounted next.

**Response:** Prepare and mount the next tape in the set. You do not have to supply the next sequential tape in the file set, but if you do not, a warning message will be printed.

---

**RBL300I**      **File *file\_name* was not found on the current tape. Try another tape? (y/n)**

---

**RBL301F**      **Could not allocate *number* bytes of memory.**

**Cause:** TMU has insufficient memory to continue. Execution cancelled.

**Response:** Notify the warehouse administrator. Refer to the Installation and Configuration Guide for specifics on how to adjust the system environment to meet the requirements.

---

**RBS302E**      **Segment *segment\_name* is mentioned more than once in the CREATE statement.**

**Cause:** The same segment name was supplied more than once in the CREATE statement.

**Response:** Correct the CREATE statement by ensuring that each segment name supplied is unique.

---

**RBL303F**      **Error while fetching descriptor for col *number* in table *table\_name*.**

---

**RBL304F**      **Could not find column named '*column\_name*' in table *table\_name*.**

**Cause:** No matching column name was found for a column in the LOAD DATA statement. Execution cancelled.

**Response:** Compare the RBW\_COLUMNS system table and the LOAD DATA statement to determine the discrepancy. Correct the LOAD DATA statement and resubmit it.

---

**RBL305F**      **Column *column\_name* is specified twice in the LOAD DATA statement.**

**Cause:** Duplicate column names were found in a single LOAD DATA statement. Execution cancelled.

**Response:** Correct the LOAD DATA statement and resubmit it.



---

**RBL306E**      **Could not open input file**  
*file\_name: os\_error*

**Cause:** An input file could not be opened as specified for the reason indicated. Execution cancelled.

**Response:** Correct the error by specifying a valid filename or by mounting the correct tape, and resubmit it.

---

**RBL307F**      **Could not open discard file**  
*file\_name.*

**Cause:** A discard file could not be opened as specified. Execution cancelled.

**Response:** Check for an error in the file definition syntax. Correct the error and resubmit it.

---

**RBL308F**      **Unsupported table type.**

**Cause:** Internal error. Execution cancelled.

**Response:** Record what you were doing and contact Customer Support.

---

**RBL309F**      **START RECORD value must be greater than zero.**

**Cause:** The supplied value for the START RECORD clause was less than or equal to zero.

**Response:** Use a positive integer value with the START RECORD clause.

---

**RBL310F**      **STOP RECORD value must be greater than zero.**

**Cause:** The supplied value for the STOP RECORD clause was less than or equal to zero.

**Response:** Use a positive integer value with the STOP RECORD clause.

---

**RBL311F**      **STOP RECORD value is smaller than START RECORD value.**

**Cause:** The supplied STOP RECORD value was less than the supplied START RECORD value.

**Response:** Use a STOP RECORD value at least as large as the START RECORD value.

---

**RBL312W**      **Discarding row *number*.**

**Cause:** A row could not be loaded. The previous message should explain the reason.

---

**RBL313F**      **Possible data integrity error; expected *number* rows in table *table\_name* but found *number* rows.**

**Cause:** The TMU detected a possible data integrity error during a REORG operation. The number of rows expected to be found in the table did not match the actual number of rows read from the table.

**Response:** Do not use the table until this problem is resolved. You should run the Red Brick table verification statement, CHECK TABLE, to identify and correct any problems with the table. Then rerun the REORG operation to a normal conclusion. Contact Customer Support for assistance.

---

**RBL314W**      **Data integrity failure on constraint '*constraint*', column '*column\_name*', value '*value*'string.**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL315I**      **Finished file *file\_name*. *number* rows read from this file.**

---

**RBL316I**      **Finished current tape. *number* rows read from this tape.**

---

**RBL317W**      **Foreign key value not unique for column '*column\_name*'string.**

**Cause:** A duplicate foreign key value was found while a table was being loaded.

**Response:** The record was placed in a discard file and loading continued.

---

**RBL318F**      **Maximum number of bad input records exceeded.**

**Cause:** The DISCARDS parameter was exceeded. Load operation terminated.

**Response:** Check the discard file to determine the source of excess errors.

---

**RBL319F**      **Column *column\_name* of table *table\_name* is declared NOT NULL yet it is not specified in the LOAD DATA statement and has no default value.**

**Cause:** All NOT NULL columns must be loaded or have a defined default value. The LOAD operation terminated.

**Response:** Check the LOAD DATA and CREATE TABLE statements.

---

**RBL320I**      **Processed *number* rows this LOAD, *number* rows this file.**

---

**RBL321I**      **Processed *number* rows this LOAD, *number* rows this file, *number* rows this tape.**

---

**RBL322W**      **Supplied RECORDLEN too small. Using computed record length of *number*.**

**Cause:** The value supplied in the RECORDLEN clause is smaller than the sum of the widths of the individual columns in the column list.

**Response:** Check the RECORDLEN value and the column declarations to determine which one is correct and which one should be changed.

---

**RBL323F**      **Error reading file *file\_name*.**

**Cause:** Internal error condition.

**Response:** Notify the warehouse administrator and contact Customer Support.

---

**RBL324W**      **NULL value in a NOT NULL column *column\_name* row *number*.**

**Cause:** A NULL value was found in a NOT NULL column.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL325W**      **Truncated column *column\_name* row *number*.**

**Cause:** Input string was longer than the maximum specified in the CREATE TABLE statement.

**Response:** Warning only. Review data contents.

---

**RBL326W**      **RECORDLEN must be a positive integer. RECORDLEN clause ignored.**

---

**RBL327F**      **NULLIF specifies a position greater than record length.**

**Cause:** Invalid NULLIF clause.

**Response:** Correct the NULLIF clause and resubmit the statement.

---

**RBL328F**      **Illegal type conversion. Character value cannot be converted to numeric. (Column *column\_name* of table *table\_name*.)**

**Cause:** Character conversion error. Execution cancelled.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL329F**      **Illegal type conversion. Numeric cannot be converted to CHARACTER or VARCHAR. (Column *column\_name* of table *table\_name*.)**

**Cause:** Character conversion error. Execution cancelled.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL330W**    **Type overflow. Value *number* cannot be assigned to TINYINT. (Column *column\_name* row *number* of table *table\_name*.)**

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL331W**    **Type overflow. Value *number* cannot be assigned to SMALLINT. (Column *column\_name* row *number* of table *table\_name*.)**

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL332F**    **Illegal type conversion. REAL cannot be converted to CHARACTER or VARCHAR. (Column *column\_name* of table *table\_name*.)**

---

**RBL333W**    **Type overflow. Value *number* cannot be assigned to TINYINT. (Column *column\_name* row *number* of table *table\_name*.)**

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL334W**    **Type overflow. Value *number* cannot be assigned to SMALLINT. (Column *column\_name* row *number* of table *table\_name*.)**

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL335W**    **Type overflow. Value *number* cannot be assigned to INTEGER. (Column *column\_name* row *number* of table *table\_name*.)**

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL336F**    **Illegal type conversion. DOUBLE PRECISION cannot be converted to CHARACTER or VARCHAR. (Column *column\_name* of table *table\_name*.)**

**Cause:** Data format specification error; the LOAD operation terminated.

**Response:** Compare the LOAD DATA and CREATE TABLE statements; correct the error and resubmit the LOAD DATA statement.

---

**RBL337W**    **Type overflow. Value *number* cannot be assigned to REAL. (Column *column\_name* row *number* of table *table\_name*.)**

**Cause:** A value was too large for a REAL field.

**Response:** The record was placed in a discard file and the LOAD operation continued.

---

**RBL338W**    **Data integrity failure on constraint '*constraint*', column '*column\_name*', value '*number*'string.**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL339I**    **Error while opening database *database\_name*.**

**Cause:** Could not open database files. The LOAD operation terminated.

**Response:** Notify the warehouse administrator and contact Customer Support.

---

**RBL340W**     **Read *number* bytes from file,  
needed *number* bytes.**

**Cause:** The number of bytes in the current row was smaller than the record length value being used.

**Response:** Check the data contents.

---

**RBL341W**     **Error writing discard file *file\_name*.**

**Cause:** I/O error while writing discard file.

**Response:** Check for a system error.

---

**RBL342F**     **Cannot load in INSERT mode  
because the table is not empty.**

**Cause:** The LOAD DATA statement contained either the INSERT keyword or no mode keyword (INSERT is the default), but the table to be loaded is not empty.

**Response:** If you want to completely reload the table, use REPLACE mode or use an SQL DELETE command to delete all the rows from the table and re-execute the LOAD DATA statement; however, all data in the table will be lost. Use REPLACE mode or a DELETE command only if data loss is acceptable. If you want to add additional rows to an existing table, use APPEND mode.

---

**RBS343E**     **The segmenting column of the  
index does not match the  
segmenting column of the data.**

**Cause:** When an index is created with the SEGMENT LIKE DATA clause, the index and the data must be segmented on the same column. The segmenting column of the index must also be the leading column in the index key.

**Response:** Correct the statement and resubmit it.

---

**RBL344E**     **SEQUENCE must have integer  
values.**

**Cause:** The SEQUENCE function was given a value that is too large. The maximum value is 2,147,483,647.

**Response:** Correct the statement and resubmit it.

---

**RBL345W**     **Literal string is longer than  
NULLIF field; only first *number*  
bytes of literal will be compared.**

**Cause:** A NULLIF keyword was included in a LOAD DATA field specification, but the literal string or hex string was longer than the input record data against which it was to be compared. Only the indicated bytes in the literal string will be compared.

**Response:** If the length mismatch was unintentional, rewrite the LOAD DATA statement so that the length of the literal string matches the NULLIF positional field. Note that for hex literals, two hex digits are equivalent to one byte.

---

**RBL346W**     **Literal string is shorter than  
NULLIF field; only first *number*  
bytes of the NULLIF field will be  
compared.**

**Cause:** A NULLIF keyword was included in a LOAD DATA field specification, but the literal string or hex string was shorter than the input record data against which it was to be compared. Only the indicated bytes in the NULLIF positional field will be compared.

**Response:** If the length mismatch was unintentional, rewrite the LOAD DATA statement so that the length of the literal string matches the NULLIF positional field. Note that for hex literals, two hex digits are equivalent to one byte.

---

**RBL347W**     **Aggregate operation would cause  
numeric overflow of target  
column. (Column *column\_name*  
row number of table *table\_name*.)**

**Cause:** An aggregation operation (ADD, SUBTRACT, or INCREMENT) would have resulted in a numeric overflow in the target database column. That is, the magnitude of the resulting value would have been too large to fit in the datatype of the target column. The

aggregate input row is discarded.

**Response:** Check the rejected record file for the discarded record. Either change the values of the database or the input record, or alter the datatype of the target database column, and reload the record.

---

**RBL348F**      **Filename *file\_name* is too long.**

**Cause:** External filename reference exceeded 256 bytes. The load process terminated.

**Response:** Check the input filename.

---

**RBL349F**      **Error while creating file  
*'file\_name'*: *os\_error*.**

**Cause:** Operating system reported error when creating a file. The load process terminated.

**Response:** Check operating-system error messages.

---

**RBL350F**      **Attempted LOAD operation  
during FETCH process. Internal  
data structures are corrupted.**

**Cause:** Internal error condition.

**Response:** Notify the warehouse administrator and contact Customer Support.

---

**RBL351W**      **Input row *number* is out of range.**

**Cause:** Combination of foreign keys produced a point outside of the key array while a data file record was being loaded. The record was placed in a discard file.

**Response:** Perform a REORG operation on the table.

---

**RBL352I**      **Row *number* of index *index\_name* is  
out of sequence. Switching to  
standard *index\_type* index  
building. Loading continues...**

**Cause:** When loading or reorganizing data organized in the order of the table being built, the TMU can use a special fast-index-building mode. This message indicates that an

out-of-order row was processed, and therefore, the special fast-index-building mode cannot be continued. The TMU switches to the standard index-building mode selected as part of the LOAD DATA or REORG command (OPTIMIZE keyword) or rbw.config option (TMU\_OPTIMIZE keyword.)

**Response:** None necessary.

---

**RBL353F**      **Operating System error *number*  
while loading table *table\_name*.**

**Cause:** Operating system error detected. The LOAD operation terminated.

**Response:** Check operating-system error messages.

---

**RBL354E**      **The specified field length *number*  
for column *column\_name* is less  
than the implied length of *number*.**

**Cause:** A length was specified for an input field that is less than the implied length. This can happen when you specify a field length or when you use the POSITION clause with a start and end value. The implied length is determined by the input datatype. (For example, an INTEGER is four bytes.)

**Response:** Correct the LOAD DATA statement.

---

**RBL355F**      **Operating System error *number*  
while synchronizing segment  
*segment\_name* with *table\_name*.**

**Cause:** Operating system error detected. SYNCH operation terminated.

**Response:** Check operating-system error messages.

---

**RBL356W**      **Non-unique value *string* in a  
UNIQUE column *column\_name*.**

**Cause:** Table data error. The LOAD operation terminated.

**Response:** Check the data contents.

---

**RBL357W**      **Cannot increment SEQUENCE because the result would overflow. Column *column\_name* row number of table *table\_name*.**

**Cause:** Incrementing the current value of the SEQUENCE once more would overflow the range for integer values.

---

**RBL358W**      **Double exponent in field. Column *column\_name* row number of table *table\_name*.**

**Cause:** Found more than one exponent indicator. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL359W**      **Two decimal points in field. Column *column\_name* row number of table *table\_name*.**

**Cause:** Decimal field error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL360W**      **Number of decimal places in field exceeds scale for column *column\_name*. Row number of table *table\_name*.**

**Cause:** Value overflow. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL361W**      **Characters other than [0-9], '+' and '-' in numeric field. Table *table\_name* row number. Column name: *column\_name***

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL362W**      **Characters other than [0-9], '+', '-', 'e', 'E' and '.' in a floating point field. Table *table\_name* row number. Column name: *column\_name***

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL363W**      **Number of fields in row number is less than number of columns to be loaded.**

**Cause:** Record length error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBS364W**      **Attaching segment *segment\_name* has invalidated index *index\_name* of table *table\_name*.**

**Cause:** An ALTER SEGMENT attach command was issued for a STAR index segment, but did not specify the attachment range. The new ranges will be recomputed automatically, causing the current index entries to be invalidated. The index must be rebuilt.

**Response:** If possible, drop the index and recreate it. Otherwise, perform a REORG operation.

---

**RBL365W**      **Incorrect numeric field format. Table *table\_name* row number.**

**Cause:** Record length error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL366I**      **Loading table *table\_name*.**

**Cause:** This message is issued when the TMU begins processing input records for a LOAD DATA operation. The table name of the target table is indicated.

**Response:** None necessary.

---

**RBL367I**      **Rows: *number* inserted. *number* updated. *number* discarded. *number* skipped.**

---

**RBL368I**      **Unloading table *table\_name* message**

**Cause:** This message is issued when the TMU begins writing output records for an UNLOAD operation. The table name of the source table is indicated, along with the unload type (relation scan, using index, segmented).

**Response:** None necessary.

---

**RBL369I**      **Unloading segment *segment\_name*.**

**Cause:** This message is issued for each segment unloaded when the TMU is unloading specific segments of a table. The segment name is indicated.

**Response:** None necessary.

---

**RBL370W**      **Invalid data in packed decimal field. Column *column\_name* row number of table *table\_name*.**

---

**Cause:** A packed decimal input data field contained illegal data. Each nibble (4 bits) must contain 0x0 through 0x9 except the sign nibble, which is the last half of the last byte; it must contain 0xa through 0xf. All other values are illegal.

**Response:** Check the input data or the discard file.

---

**RBL371F**      **Field starting position must be less than ending position.**

---

**Cause:** Field specification error. The LOAD operation terminated.

**Response:** Correct the error in the LOAD DATA statement.

---

**RBL372W**      **Overflow in numeric field. Column *column\_name* row number of table *table\_name*.**

---

**Cause:** Data value error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL373W**      **Scaling adjustment will cause overflow in numeric field. Column *column\_name* row number of table *table\_name*.**

---

**Cause:** Data value error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL374W**      **Double sign in field. Column *column\_name* row number of table *table\_name*.**

---

**Cause:** Data sign error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL375W**      **Sign is neither the first non-blank character nor the first character after 'E' in field. Column *column\_name* row number of table *table\_name*.**

---

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL376W**      **Exponent is not preceded by digits in field. Column *column\_name* row number of table *table\_name*.**

---

**Cause:** Data content error. Record was placed in a discard file.



**Response:** Check the input data or the discard file.

---

**RBL377W**      **Invalid data in zoned numeric field. Column *column\_name* row number of table *table\_name*.**

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL378F**      **Alphanumeric literal '*string*' exceeds 1024 bytes.**

**Cause:** The load process terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL379F**      **Name '*string*' exceeds 128 bytes.**

**Cause:** The load process terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL380F**      **Separator string must consist of one to ten characters.**

**Cause:** The SEPARATED BY string was incorrect. The string must contain at least one character and no more than ten characters.

**Response:** Correct the LOAD DATA statement and submit the command again.

---

**RBL381W**      **Data integrity failure on constraint '*constraint*', column '*column\_name*', value '*number*'string.**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL382W**      **Data integrity failure on constraint '*constraint*', column '*column\_name*', value '*number*'string.**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL383F**      **Field length for non-binary column '*column\_name*' is undefined.**

**Cause:** Field length must be specified for files with records that are not separated by a character. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL384F**      **Binary input column *column\_name* not allowed except for fixed format files with a RECORDLEN clause.**

**Cause:** An input column containing binary input data was specified with either SEPARATED input or fixed input and no RECORDLEN clause. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL385F**      **Filename must be specified.**

**Cause:** Filename must be specified for input file. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL386F**      **NULLIF is not allowed with SEPARATED format.**

**Cause:** Conflicting parameters. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL387F**      **Fatal TMU error.**

**Cause:** Internal error.

**Response:** Record what you were doing and contact Customer Support.



---

**RBS388E**      **Cannot offline the last segment**  
*segment\_name* **from a table or**  
**index.**

**Cause:** If a table or index has only one segment, that segment cannot be offline.

**Response:** None necessary.

---

**RBL389E**      **Syntax error in Table Management**  
**Utility control statement at line**  
*number*.

**Cause:** Syntax error in the specified input statement of a TMU control file.

**Response:** Correct the syntax error in the TMU control file and resubmit the file.

---

**RBL390E**      **End of file encountered within a**  
**literal.**

**Cause:** Syntax error at the specified location in a TMU control statement.

**Response:** Correct the syntax error in the TMU control file and resubmit the file.

---

**RBL391E**      **TMU control statement not**  
**terminated by semicolon.**

**Cause:** A required semicolon is missing at the end of a TMU control statement.

**Response:** Add the semicolon (;) to the control statement and resubmit the statement.

---

**RBL392F**      **Actual record length of *number***  
**exceeds maximum record length**  
**of *number*.**

**Cause:** Excessively long block encountered. The LOAD operation terminated.

**Response:** Correct the input data and reperform the operation.

---

---

**RBL393W**      **Floating point overflow or**  
**underflow: input '*string*' column**  
***column\_name* row *number*.**

**Cause:** Data values exceed hardware limits. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL394F**      **REAL and DOUBLE PRECISION**  
**fields are not supported in IBM**  
**mode.**

**Cause:** LOAD DATA statement error. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL395F**      **Field length must be greater than**  
**zero.**

**Cause:** LOAD DATA statement error. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL396F**      **Actual record length of input file**  
**is shorter than maximum field**  
**extent.**

**Cause:** Error encountered in reading input file. The LOAD operation terminated.

**Response:** Correct the input data or LOAD DATA statement and resubmit it.

---

**RBL397I**      **Rows: *number* inserted. *number***  
**updated. *number* discarded. *number***  
**skipped. Loading continues...**

---

**RBL398E**      **Unrecognized M4DATE format**  
**'*string*'.**

**Cause:** LOAD DATA statement error. The LOAD operation terminated.

**Response:** Correct the input data or LOAD DATA statement and resubmit it.

---

---

**RBL399W**      **Incorrectly formatted date in M4DATE field '*string*', row *number*.**

**Cause:** Invalid data encountered. Record discarded. The LOAD operation continued.

**Response:** Correct the record and reload it.

---

**RBL400F**      **M4DATE cannot be loaded into column '*column\_name*' because it is not of INTEGER datatype.**

**Cause:** The LOAD DATA and CREATE TABLE statements are inconsistent.

**Response:** Compare and correct the statements, and reperform the operation.

---

**RBL401I**      **Column '*column\_name*': size = *number*, alphabet = *number*, unique values = *number*, length = *number*.**

---

**RBL402F**      **POSITION must be greater than zero.**

**Cause:** LOAD DATA statement syntax error. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and resubmit it.

---

**RBL403W**      **Packed or zoned decimal field has too many digits. Column *column\_name*, row *number*.**

**Cause:** A packed-decimal or zoned-decimal number with more than 38 significant digits was encountered. The row was discarded.

**Response:** Correct the record and reload it.

---

**RBL404F**      **Illegal type conversion. DATETIME cannot be converted to numeric datatype. (Column *column\_name* of table *table\_name*.)**

**Cause:** The LOAD DATA and CREATE TABLE statements are inconsistent.

**Response:** Correct the inconsistencies and reperform the operation.

---

---

**RBA405E**      **Insufficient disk space is available to continue execution.**

**Cause:** A full filesystem prevented Red Brick Warehouse from either enlarging an existing file or creating a new file.

**Response:** Make available sufficient disk space on the full filesystem.

---

**RBA406E**      **Insufficient file space for segment *segment\_name* of index *index\_name*.**

**Cause:** During an index build operation (LOAD DATA, REORG, CREATE INDEX, etc.), the segment space available for the named index was exhausted.

**Response:** Use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment.

---

**RBA407W**      **Unable to delete file *file\_name* *error\_reason*.**

---

**RBL408W**      **Input row *number* contains duplicate key. Row discarded.**

---

**RBL409I**      **Reorganizing table *table\_name* in parallel mode.**

**Cause:** The TMU began a REORG operation on the named table.

**Response:** None necessary.

---

**RBS410E**      **Value '*number*' out of range for DATEDIFF result type.**

**Cause:** The result of the DATEDIFF function would be out of range for an integer value.

**Response:** Change the statement to use a different DATEPART and multiply the result of the function with an appropriate value to get the desired results.

For example, instead of  
datediff(microseconds,date1,date2), use  
datediff(days,date1,date2) \* 8.64E10 (because there are 8.64E10 microseconds in a day).

---

**RBS411E**      **DATEADD result year value 'number' is out of range. Valid values are from number to number.**

---

**Cause:** The result of the DATEADD is beyond the valid range for a date or time stamp.

**Response:** Correct the statement to stay within valid date limits.

---

**RBA412F**      **table\_name is not a base table.**

---

**Cause:** The table specified in the statement was either a synonym, a view, or a model table. The operation can be performed only on a user-defined base table.

---

**RBA413I**      **number rows failed referential integrity check and were deleted.**

---

---

**RBA414I**      **Table table\_name reorganization completed.**

---

---

**RBA415I**      **number rows passed referential integrity check.**

---

---

**RBA416I**      **Reorganized number rows. Discarded number rows. Reorganization continues...**

---

---

**RBA417I**      **Rebuilding index index\_name.**

---

---

**RBL418E**      **Insufficient authority to perform REORG operation.**

---

**Cause:** A TMU REORG statement specified a table to be organized, but the user running the TMU does not have sufficient object privileges to perform the operation. The TMU user must have REORG\_ANY authority, be a member of the DBA system role, or be the owner of the table.

**Response:** No REORG operation is performed. Review table ownership and authorities and run the TMU with an appropriate database user name.

---

**RBL419I**      **Reorganizing table table\_name in serial mode.**

---

**Cause:** The TMU began a REORG operation on the named table.

**Response:** None necessary.

---

**RBA420E**      **Unable to open output file 'file\_name'.**

---

---

**RBA421E**      **Error unloading table table\_name.**

---

---

**RBL422I**      **Unloaded total number rows to nametape\_info.**

---

**Cause:** UNLOAD operation was successful.

**Response:** None necessary.

---

**RBL423I**      **Unloaded number rows. Unloading continues...**

---

**Cause:** On-going progress of an UNLOAD operation.

**Response:** None necessary.

---

**RBL424E**      **Cannot UNLOAD table table\_name because index index\_name is not valid.**

---

**Cause:** An UNLOAD operation using an index failed because the named index is currently marked invalid.

**Response:** Use a REORG operation on the table to restore index validity, omit the index name on the UNLOAD statement to force a relation scan, or choose another index.

---

**RBL425E**      **Insufficient authority to UNLOAD or GENERATE table table\_name.**

---

**Cause:** A TMU UNLOAD or GENERATE command was issued, but the user running the TMU does not have sufficient object privileges to perform the operation. To use UNLOAD or GENERATE, a user must have ACCESS\_ANY authority, be a member of the DBA system role,

be the owner of the table, or have SELECT privilege on the table.

**Response:** Review table ownership and authorities and run the TMU with an appropriate database user name.

---

**RBL426I**      **UNLOAD terminated abnormally after *number* rows.**

**Cause:** After a specific number of rows were written to the unload file, an error, interrupt, or signal caused an UNLOAD operation to terminate abnormally.

**Response:** None necessary.

---

**RBA427F**      **Current database not compatible with this version of Red Brick Warehouse.**

---

**RBA428F**      **DISCARDFILE IN EBCDIC not supported for ASCII input files.**

---

**RBA429E**      **The statement cannot complete because segment *segment\_name* is offline.**

**Cause:** An operation requiring online segments referenced a segment that is offline or unavailable because of I/O errors.

**Response:** For a SELECT statement, the SET PARTIAL AVAILABILITY command can be used to force the statement to continue even if some data is offline. For other operations, ensure that the segment is online and then perform the operation.

---

**RBA430E**      **Temporary space value *number* is invalid. Must be a non-negative integer.**

**Cause:** A THRESHOLD or MAXSPILLSIZE value was specified as a negative number.

**Response:** Specify a value within valid limits.

---

**RBA431E**      ***temp\_space\_type* MAXSPILLSIZE *numberunit\_name* bytes is an illegal value. The MAXSPILLSIZE must be greater than *number* bytes.**

**Cause:** An attempt to set the maximum amount (MAXSPILLSIZE) of the indicated type of temporary space (either QUERY\_TEMPSPACE or INDEX\_TEMPSPACE) specified an illegal value.

**Response:** Resubmit the request with a value that, when rounded up to the nearest multiple of 8192 bytes, is greater than the corresponding INDEX\_TEMPSPACE\_THRESHOLD or QUERY\_MEMORY\_LIMIT value for the type of temporary space.

If you are setting the value with a SET command, note that you can also use the SET { QUERY | INDEX }\_TEMPSPACE RESET command to restore all temporary space configuration parameter values for the indicated type of temporary space from the rbw.config file.

---

**RBA432E**      **Temporary space location '*path\_name*' is not a directory.**

---

**RBA433E**      **Temporary space location '*path\_name*' is not writable.**

---

**RBA434E**      **Unable to spill any more data into temporary space file '*file\_name*'.**

---

**RBA435E**      **The DUPLICATESPILLPERCENT value *number* is not between 0 and 100.**

**Cause:** A SET INDEX TEMPSPACE DUPLICATESPILLPERCENT statement specified an illegal value. The DUPLICATESPILLPERCENT must be a value between 0 and 100, inclusive.

**Response:** Specify a value within valid limits.

RBA436E	Invalid units ' <i>unit_name</i> ' for <i>temp_space_type</i> <b>THRESHOLD</b> . Valid units are ' <i>unit_name</i> ' (Kilobytes), ' <i>unit_name</i> ' (Megabytes), and ' <i>unit_name</i> ' (Gigabytes).
RBA437E	Temporary space file <i>number</i> <i>file_name</i> is too large. Value must be less than or equal to 2047 gigabytes.
RBL438F	Argument <i>string</i> to CONCAT not previously defined.
RBL439F	Argument <i>string</i> to CONCAT is not of character value.
RBL440F	Result column of CONCAT must be of CHARACTER or VARCHAR datatype.
RBL441F	CONSTANT <i>string</i> is not type compatible with column <i>column_name</i> .
RBL442F	CONSTANT <i>string</i> is not type compatible with column <i>column_name</i> .
RBL443F	CONSTANT <i>number</i> is not type compatible with column <i>column_name</i> .
RBL444E	AUTOROWGEN cannot be used with offline LOAD.

**Cause:** A LOAD DATA statement for performing an offline load specified AUTOROWGEN ON. Because AUTOROWGEN requires exclusive access to the tables referenced by the foreign keys of the table being loaded, it defeats the purpose of offline loading (which is to allow query activity to proceed against the rest of the table while the load is performed into the offline segment).

**Response:** Either remove AUTOROWGEN from the TMU control file or use an online load operation with AUTOROWGEN specified.

RBA445F	Column <i>column_name</i> is NOT NULL; CONSTANT NULL is invalid.
RBA446F	Result column <i>column_name</i> of SEQUENCE cannot be of CHARACTER or VARCHAR datatype.
RBS447E	Unknown function ' <i>function_name</i> '.
RBS448E	Function ' <i>function_name</i> ' expected <i>number</i> argument(s) and was called with <i>number</i> .
<b>Cause:</b> The specified function was called with an incorrect number of arguments.	
RBS449E	Function ' <i>function_name</i> ' has incorrect type for argument <i>number</i> . Expected type: <i>data_type</i> . Actual type: <i>data_type</i> .
<b>Cause:</b> The specified function was called with the wrong datatype for the specified argument.	
RBS450E	Function ' <i>function_name</i> ' does not allow NULL as a value for argument <i>number</i> .
<b>Cause:</b> The NULL keyword is not allowed at the specified location of the specified function.	
RBS451E	Function ' <i>function_name</i> ' does not allow type: <i>data_type</i> for argument <i>number</i> . Any other type is valid.
<b>Cause:</b> The specified argument is an invalid type.	
RBS452E	Invalid option ' <i>option_name</i> ' for function ' <i>function_name</i> '. Valid options are: <i>option_name</i> .

RBL453F	Illegal value <i>string</i> in CONSTANT statement.	RBS460E	Function ' <i>function_name</i> ' was called with argument <i>number</i> set to <i>number</i> , which is less than the allowed minimum of <i>number</i> .
RBL454W	Decimal point in exponent. Column <i>column_name</i> row <i>number</i> of table <i>table_name</i> .	Cause:	The value of the specified argument of the specified function is too small.
RBL455W	No digits in exponent. Column <i>column_name</i> row <i>number</i> of table <i>table_name</i> .	RBS461E	Function ' <i>function_name</i> ' was called with argument <i>number</i> set to <i>number</i> , which is greater than the allowed maximum of <i>number</i> .
RBL456W	Data integrity error. Invalid data in floating point field. Column <i>column_name</i> row <i>number</i> of table <i>table_name</i> .	Cause:	The value of the specified argument of the specified function is too large.
RBS457E	STRING function called with length <i>number</i> greater than defined length <i>number</i> .	RBS462E	Function ' <i>function_name</i> ' cannot have a NULL value for argument <i>number</i> .
Cause:	The STRING function was called with an expression for the length that is greater than the default length value.	Cause:	The specified function was called with a NULL value, which is not allowed.
RBS458E	STRING function called with scale value <i>number</i> out of range.	RBS463E	Function ' <i>function_name</i> ' was called with a character string that did not contain numeric values. String:' <i>string</i> '.
Cause:	The STRING function was called with a scale value that was either greater than 38 or less than zero.	Cause:	The conversion to a numeric type was not possible because the character string was not convertible.
RBS459E	STRING function called with scale value <i>scale</i> , which is too large for length of <i>length</i> .	RBS464E	The value <i>number</i> could not be converted to an integer because it is out of range.
Cause:	In the STRING function, scale+3 must be less than or equal to length; if scale+3 is greater than length, an error is issued. The three additional characters are needed for the sign character, the decimal (radix) point and a possible leading zero.	Cause:	An argument to the INT function was outside the legal range for an integer.
Response:	Decrease the scale value or increase the length value and recall the STRING function.	RBA465E	Cannot modify table because one or more of the referenced tables are empty.
		Cause:	One of the tables referenced by the target table has no rows. Thus, all rows in the target table will fail referential integrity.
		Response:	Before a table can be loaded, all tables referenced by it (including associated outboard tables) must be loaded.

---

**RBL467F**      **Device '*device\_name*' is not a tape drive.**

**Cause:** An UNLOAD or BACKUP statement for the TMU specified a tape device name, but that device name is either not a tape drive or not a tape drive model supported by Red Brick Warehouse. The operation is rejected.

**Response:** Examine the DEVICE name specified in the UNLOAD or BACKUP statement, and correct it to reference a supported tape drive.

---

**RBL468F**      **Operating system error during I/O to device *device\_name*.**

**Cause:** The TMU was unable to complete an I/O request to the indicated device. Additional error text is included, indicating the system-specific error that occurred.

**Response:** Examine the DEVICE name specified in the UNLOAD statement to ensure it references a supported tape drive. The system-specific error should suggest a further course of action.

---

**RBL469W**      **Not enough data to read another row of *number* bytes from file *file\_name*. Extra data ignored.**

**Cause:** The length of the input file was not divisible by the length supplied in the RECORDLEN clause. The extra data at the end of the file is ignored.

**Response:** Remove the extra data from the end of the file, adjust the RECORDLEN, or add data to the end of the file so that the file length is divisible by the RECORDLEN.

---

**RBL470I**      **Tape drive *device\_name* is not ready.**

**Cause:** The indicated tape drive could not be accessed for I/O. This probably indicates that the drive is not properly loaded and ready.

**Response:** Load an appropriate tape and make the drive ready.

---

**RBL471I**      **Unable to write to tape in drive *device\_name* because it is write protected.**

**Cause:** The TMU attempted to start unloading data to a magnetic tape, but it could not access the tape because it is write-protected.

**Response:** Enable the tape for writing, or load a different tape into the indicated tape drive. To resume the UNLOAD operation, press Return.

---

**RBL472F**      **Device *device\_name* is unable to support UNLOAD in Standard Label format.**

**Cause:** An UNLOAD operation to tape was requested using the Standard Label tape format; however, the selected tape device imposes physical restrictions that prevent it from writing a tape in that format. The UNLOAD operation fails.

**Response:** Rewrite the UNLOAD statement to specify native tape format ("*tar*" for UNIX systems) or choose a tape drive that supports variable length blocks.

---

**RBL473I**      **Unmount current tape and mount new blank tape on device *device\_name*.**

**Cause:** An UNLOAD operation has completely filled a tape volume and needs to continue on a new blank tape.

**Response:** Allow the current tape to rewind and remove it from the tape drive. Mount a new blank tape on the same drive.

---

**RBL474I**      **Interpreting tape on device *device\_name* as tar format.**

**Cause:** A LOAD operation from a tape drive has determined that the tape mounted on the indicated device appears to be in tar format. This message indicates only that the TMU expects the tape to be written in a valid tar format, not that it has successfully interpreted the tar tape header or found the requested file.

**Response:** If the current tape file is expected to



be in tar format, no response is needed. If the current tape is not expected to be in tar format, rewind and remove the tape from the tape drive and mount an appropriate tape. If the current tape is positioned to the wrong file, re-position the tape and try the operation again.

---

**RBL475I      Interpreting tape on device**  
*device\_name* as SL format.

**Cause:** A LOAD operation from a tape drive has determined that the tape mounted on the indicated device appears to be a Standard Label (SL) tape. This message indicates only that the TMU expects the tape to be written in a valid SL format, not that it has successfully interpreted the SL tape header or found the requested file.

**Response:** If the current tape file is expected to be in SL format, no response is needed. If the current tape is not expected to be in SL format, rewind and remove the tape from the tape drive and mount an appropriate tape. If the current tape is positioned to the wrong file, re-position the tape and try the operation again.

---

**RBA476I      Error creating lock file** *file\_name*.

**Cause:** Red Brick Warehouse or the `rb_creator` script could not create the `RB_DEFAULT_LOCKS` file. The operating system error that occurred is displayed immediately following this message.

**Response:** Check file permissions and free space on the filesystem containing the database directory.

---

**RBL477W      Tape starts with file section**  
*number*, was expecting file section  
*number*.

**Cause:** A LOAD operation is continuing with a new tape reel, but the file section on the tape does not sequentially follow the previous tape reel.

**Response:** Answer the subsequent question to continue with the mounted tape or to select another tape.

---

**RBL478I      Enter 'c' to continue with this**  
section, or 'n' to mount another  
tape.

**Cause:** Follows message 477.

---

**RBL479F      Invalid Standard Label tape**  
format encountered: *string*

**Cause:** The TMU found a format error while processing a Standard Label tape. The exact nature of the problem is indicated in the message.

**Response:** The current LOAD operation terminates. Restart the operation with correct media.

---

**RBA480E      Cannot create database in**  
*dir\_name*; the directory is not  
empty.

**Cause:** The directory passed to `dbcreate` to create the database is not empty.

**Response:** Either remove all files from the directory or use another empty directory.

---

**RBL481F      Not a tar tape, or invalid tar tape**  
format encountered: *string*

**Cause:** The TMU found a format error while processing a tar format tape. The exact nature of the problem is indicated in the message.

**Response:** The current LOAD operation terminates. Restart the operation with correct media. If you are using a multi-tape tar volume, be sure that the tapes are being processed in the proper sequence.

---

**RBL482I      File *file\_name* is not the next file**  
on the current tape.

**Cause:** The TMU is searching for a second or subsequent filename used in a LOAD statement, but the named file does not follow sequentially on the mounted input tape.

**Response:** A message requiring a response follows this message. Answer that message as appropriate.



---

**RBL483I**      Enter 'c' to continue searching this tape, 'n' to rewind and mount a new tape, or 'q' to quit.

**Cause:** Follows message 482.

**Response:** Respond with 'c' to continue searching forward on the currently-mounted tape. Respond with 'n' to rewind the current tape. Rewinding the tape allows you to restart the search from the beginning of the current tape or to dismount the current tape and mount another tape. Respond with 'q' to quit the TMU operation immediately.

---

**RBL484F**      TMU terminated at user request.

**Cause:** Indicates that the TMU operation is terminating as the result of a user request.

---

**RBL485E**      Upgrade cannot be performed:  
The database contains model table  
*table\_name*.

**Cause:** The database contains a Data Mine MODEL table. Red Brick Warehouse no longer supports MODEL tables. All MODEL tables must be dropped before the database can be upgraded.

**Response:** Using the DROP MODEL statement with the previous version of the software to drop all MODEL tables. Then rerun the UPGRADE operation.

---

**RBL486W**      UPGRADE completed with  
*error\_count* errors or warnings.

**Cause:** The TMU has completed an upgrade during which there were some errors. This problem can occur if the system catalog being upgraded is corrupted.

**Response:** The upgraded system should be available for use to a certain extent. However, if you encounter a large number of errors, rename the saved copy of the system catalog file and reinstall the old version of the software to continue using the system. Contact Customer Support to complete the upgrade. Error details can be found in the log file.

---

**RBL487F**      Corrupted system catalog;  
UPGRADE aborted.

**Cause:** The system catalog being upgraded is corrupted. Too many errors were encountered for the upgrade to proceed.

**Response:** Contact Customer Support to complete the upgrade.

---

**RBL488I**      Mount tape number *number* in the  
restore sequence.

**Cause:** The TMU is looking for the next tape in a backup sequence to continue a RESTORE operation.

**Response:** Mount the indicated tape and press Return when ready.

---

**RBL489I**      Output tape for Standard Label  
format currently has no label.

**Cause:** The TMU attempted to write an output tape in Standard Label format, but was unable to identify a pre-existing label on the output tape from which to determine volume identification information. This condition can occur if writing to a new tape or a tape that was previously recorded in a format without standard labels. It can also occur if the tape is an IBM labeled tape with volume information recorded in EBCDIC. The user must provide volume identification information (sometimes called a volume serial number) so that a new label can be written on the tape.

**Response:** The user is prompted to enter a new volume identifier.

---

**RBL490I**      Volume identifier must contain  
between one and six bytes.

**Cause:** The user failed to enter a valid volume identifier for use in a tape label. The volume identifier must be non-null and is limited to six bytes.

**Response:** Enter a valid volume identifier, or "q" to quit the TMU.

---

**RBL491I      Volume identifier contains invalid characters.**

**Cause:** The user failed to enter a valid volume identifier for use in a tape label. The volume identifier must be between one and six bytes long; it must consist only of numeric digits, upper case letters, or special characters from the set: !"%&'()\*+,-./:;<=>?. A volume identifier cannot contain embedded blanks.

**Response:** Enter a valid volume identifier, or "q" to quit the TMU.

---

**RBL493E      Cannot UNLOAD segment *segment\_name* for table *table\_name* because the segment does not exist.**

**Cause:** An UNLOAD operation named a specific segment to unload, but no segment by that name exists in the database.

**Response:** Specify valid segment names in the UNLOAD statement.

---

**RBS494E      Cannot drop column *column\_name* because it is the segmenting column.**

**Cause:** An attempt was made to drop a column used to segment a table by range values.

**Response:** Correct the ALTER TABLE statement so that it does not drop the segmenting column.

---

**RBL495W      Segment *segment\_name* is already in SYNCH with table *table\_name*.**

**Cause:** A SYNCH operation referenced a segment that is already synchronized with its associated table. No action was performed.

**Response:** An ALTER SEGMENT command can be issued to bring the segment online.

---

**RBL496E      Cannot use segment *segment\_name* because it is not a row data segment attached to table *table\_name*.**

**Cause:** A TMU operation for segments (offline LOAD, SYNCH, or UNLOAD) named a segment that is either not attached to the named table or does not contain row data (that is, it contains index data).

**Response:** Correct the TMU statement to specify named segments that contain row data for the corresponding table.

---

**RBL498E      Load mode conflicts with offline load.**

**Cause:** A LOAD operation into an offline segment specified MODIFY or UPDATE mode; an offline LOAD operation can be done only in INSERT, APPEND, or REPLACE mode.

**Response:** Correct the LOAD statement to specify a valid mode or perform an online load operation.

---

**RBS499S      *stat\_timetype\_string* **cp time,**  
*time\_string* **tot cp time, time\_string**  
**agg tot cp time, time\_string elapsed**  
**time, time\_string agg elapsed time,**  
**Logical**  
**Reads/Writes: number/numberstat****

**Cause:** Full statistic messages have been enabled. This message contains statistical information about the command. There might be platform-specific information following the Logical Reads/Writes information.

---

**RBS500S      *stat\_timetype\_string* **cp time,**  
*time\_string* **time, Logical IO**  
**count=numberstat****

**Cause:** This message contains statistical information about the command. There might be platform-specific information following the Logical IO count.

**Response:** None necessary. The database is already locked.

---

**RBS501E      LOCK DATABASE already issued in this session.**

**Cause:** User issued a LOCK DATABASE command when the database was locked.

**Response:** None necessary. The database is already locked.

---

**RBS502E      Database not locked.**

**Cause:** User issued an UNLOCK DATABASE command when the database was unlocked.

**Response:** None necessary. The database is already unlocked.

---

**RBS503E      Cannot lock database because the database is already locked.**

**Cause:** User issued a LOCK DATABASE NO WAIT command when the database was locked by another user.

---

**RBS504E      This alter table cannot be resumed: no resume information available.**

**Cause:** User issued an ALTER TABLE RESUME command when there is no resume related data available. Check related message 518.

**Response:** None.

---

**RBS505E      Cannot complete operation because database is locked.**

**Cause:** Another user has the database locked for exclusive access.

**Response:** Try the operation later or issue a LOCK DATABASE command to acquire an explicit lock on the database.

---

**RBS506E      Insufficient authority to LOCK DATABASE.**

**Cause:** The user who issued the LOCK DATABASE command did not have the required authority. To lock a database, a user must be a member of the DBA system role or have the LOCK\_DATABASE authority.

---

**RBS507I      Unable to lock database because the following tables are locked:**

**Cause:** This error is always followed by error 508, which lists the tables that prevent the locking of the database.

**Response:** The DBA should request that all active database users stop their queries and release any locks they have on tables. The tables in the list following this error are the names of the base tables; if a synonym is locked, then its base table is displayed in this list.

---

**RBS508I      Table *table\_name* (id number).**

**Cause:** Follows messages 507, 541, and 639.

---

**RBS509E      There are locked tables.**

**Cause:** Follows message 507.

---

**RBL510I      File *file\_name* is not present on the current tar archive.**

**Cause:** The TMU searched for the indicated file on a tar archive tape, but the file was not found.

**Response:** A message requiring a response follows this message. The indicated file might be present earlier in the current tar archive. If so, respond by selecting rewind, and reprocess the current archive beginning with the first (or only) tape in the archive.

---

**RBL511I      Enter "n" if you want to mount another (new) tape, or "q" if you want to terminate (quit).**

**Cause:** Follows message 510.

**Response:** Respond with "n" to rewind the current tape. This allows you to restart the search from the beginning of the tape, or dismount the tape and mount another. You must mount a tape that contains the beginning of a tar archive because you cannot start searching from a second or subsequent volume of a multi-volume tar archive. Respond with "q" to quit the TMU operation.

---

**RBL512I      OPTIMIZED index building is OFF.**

**Cause:** Indicates that OPTIMIZED index-building mode has been set to OFF for the current TMU operation. In some cases when processing strictly-ordered data, the TMU is able to use a special fast-index-building technique. Otherwise, optimized or unoptimized index-building is selected according to the OPTION TMU\_OPTIMIZE setting in the rbw.config file and/or an optional OPTIMIZE statement for the current TMU operation. In some cases, unoptimized index-building can take much longer than optimized building for the same data and index. For a MODIFY or MODIFY AGGREGATE format load, if the ACCEPT/REJECT clause of the LOAD statement contained a reference to a real column in the table being loaded, or if the target table had more than one unique index, index building degrades to OPTIMIZE OFF automatically.

**Response:** If selection of unoptimized index-building is unintentional, consider interrupting the current TMU operation and modifying the rbw.config file and/or the TMU control file to specify OPTIMIZE ON. In the case of MODIFY or MODIFY AGGREGATE loads, see if the ACCEPT/REJECT clause contains a real column or the target table has more than one unique index.

---

**RBA513I      Starting merge phase of index building *index\_name*.**

**Cause:** During a LOAD DATA, REORG or CREATE INDEX operation, a merge phase of index building was started. This message is issued only when an index is built using the standard OPTIMIZE indexing mode. In some cases, this phase of index building can take substantial time.

**Response:** None necessary.

---

**RBL514E      Unable to undo offline load because table *table\_name* has an invalid index.**

**Cause:** Since the offline LOAD operation was performed, one or more of the indexes of the table have become invalid. Possible causes of an invalid index include: one of the referenced tables in the schema has had its MAXSEGMENTS or MAXROWS PER SEGMENT value changed; one of the referenced tables has been reloaded; or a segment has been attached to or detached from the index.

**Response:** Perform a SYNCH operation to synchronize the offline segment with the table. Then bring the segment online and perform a REORG operation on the table. Alternatively, you can use an ALTER SEGMENT CLEAR command, bring the segment online, and perform a REORG operation. This alternative removes all the rows from the segment.

---

**RBS515E      Cannot change the maxsize of PSU id *psu\_num1* because PSU id *psu\_num2* is the "current" PSU.**

**Cause:** The specified PSU sequence ID precedes the PSU sequence ID of the "current" PSU -- the one from which the last new block was allocated.

**Response:** Correct and resubmit the statement.

---

**RBS516E      Invalid PSU sequence number specified.**

**Cause:** User issued an ALTER SEGMENT statement with a PSU sequence number less than 1 or greater than the number of PSUs in the segment.

**Response:** Query the RBW\_STORAGE system table for the correct PSU sequence number.

---

**RBS517E      Cannot change PSU MAXSIZE to less than current size, which is *current\_size*.**

**Cause:** User issued an ALTER SEGMENT ... CHANGE MAXSIZE statement, and the requested MAXSIZE value is less than the

current size for the PSU indicated.

**Response:** Choose a new MAXSIZE value greater than or equal to the current size.

---

**RBS518W**      **Alter table needs more space in segment header (available: *sa*, required: *sr*).**

**Cause:** Alter table is not able to save data for RESUME. ALTER TABLE RESUME cannot be done for this alter table operation.

**Response:** No response needed.

---

**RBA519E**      **Directory '*path\_name*' does not contain a valid Red Brick Warehouse database. Missing '*string*'.**

**Cause:** Five files contain the system tables for a Red Brick Warehouse database: RB\_DEFAULT\_IDX, RB\_DEFAULT\_INDEXES, RB\_DEFAULT\_LOCKS, RB\_DEFAULT\_SEGMENTS, and RB\_DEFAULT\_TABLES. At least one of these files is not in the specified directory.

**Response:** If the directory value is not valid, look in the rbw.config file for a database definition line with the format: DB <name> <directory>. If there is no such database definition line, have the warehouse administrator add the appropriate line. If the directory value is valid, confirm that it contains a Red Brick Warehouse database created with the rb\_creator script. Finally, check the file permissions on the database and the permissions on the rbwsrv program. The database should have read/write privilege for the "redbrick" user. The rbwsrv program should also be owned by the "redbrick" user and have the setuid bit turned on.

---

**RBS520F**      **Lock file corrupt.**

**Cause:** During kernel initialization, the file RB\_DEFAULT\_LOCKS must exist in the same path as RB\_DEFAULT\_IDX file. The initialization procedure makes the following checks on the file:

(1) It must be exactly 65,536 bytes long.

(2) It must contain the four-byte sequence "LOCK" repeated 16,384 times.

If either or both of these conditions is not met, the kernel aborts initialization and exits.

**Response:** This file is created by rb\_creator. The file itself contains no data critical to the execution of the system, but it must exist. This file can be recreated either by using a shell script or by replacing the file from a tar tape (if one exists).

---

**RBL521E**      **Backup/Restore operation is aborted.**

**Cause:** User aborted backup/restore operation.

**Response:** None.

---

**RBL522E**      **Backup failed. The total number of standard-label files (*num*) in the current BAR unit (size: *sizeK*) is too big.**

**Cause:** The total number of standard-label files in the current BAR unit exceeds the maximum number of standard-label files allowed in one BAR unit. The maximum number of standard-label files in one BAR unit is 100.

**Response:** Reduce the value of BAR\_UNIT\_SIZE or choose a tape with bigger capacity.

---

**RBL523I**      **Backup of database '*db*' with backup level *level*, backup type *type*, and backup media *media* started.**

**Cause:** A TMU BACKUP operation has started. The database name, backup level, backup type, and backup media type are listed.

---

**RBL525E**      **Tape device is not supported.**

**Cause:** The tape device is not supported on this platform (Windows/NT).

**Response:** No response.

---

**RBL528F      Insufficient authority to perform  
RESTORE or VERIFY operation.**

**Cause:** The user who issued the RESTORE or VERIFY command did not have the required authority. To restore a database, a user must have RESTORE\_DATABASE authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBL529F      Insufficient authority to perform  
UPGRADE operation.**

**Cause:** The user who issued the UPGRADE command did not have the required authority. To upgrade a database, a user must have UPGRADE\_DATABASE authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBL532I      Backup file name on standard  
label tape is: *string***

**Cause:** Backup file is on tape. The standard label tape file name is shown.

---

**RBA533E      Cannot complete operation  
because table '*table\_name*' has an  
invalid index.**

**Cause:** A requested operation could not be completed because a required index on the indicated table is marked "invalid".

**Response:** Examine the RBW\_INDEXES system table to determine which index or indexes are invalid. Perform a REORG operation for each invalid index and re-attempt the operation.

---

**RBL534E      Cannot reorganize table *table\_name*  
because one or more referenced  
tables are empty.**

**Cause:** One of the tables referenced as a foreign key by the table named in the TMU REORG statement is empty. If the REORG operation were performed, all rows would fail referential

integrity and all rows in the named table would be discarded.

**Response:** If your intention is to remove all rows from the named table, use the DELETE FROM <table\_name> command. If your intention is to reorganize the named table, verify that all referenced tables have data against which referential integrity can be checked. If a referenced table is empty, you can use the INSERT INTO ... VALUES command to insert a temporary row into the empty referenced table so that the REORG operation can be performed.

---

**RBA536W      Rows discarded due to keyspace  
overflow: *number*.**

**Cause:** The MAXROWS\_PER\_SEGMENT value was changed, which resulted in an invalid STAR index. Before a REORG operation was performed on the STAR index, an attempt was made to insert rows into the referencing table. Refer to the Warehouse Administrator's Guide for information on enlarging tables.

**Response:** REORG the referencing table.

---

**RBS537E      Column *column\_name* is named  
more than once in the INSERT  
column list.**

**Cause:** The same column was named more than once in the input column set. For example, the following statement produces this error:

```
INSERT INTO T(COL1, COL1) VALUES (1,1);
```

---

**RBS538E      ALTER SEGMENT command  
failed because the file '*file\_name*'  
already exists.**

**Cause:** The file named in the ALTER SEGMENT statement already exists and therefore cannot be added to the segment. This error is produced only when you are adding a new file to a segment.

**Response:** Either delete the file or use a different path.



---

**RBA539W**     **Index *index\_name* could not be synchronized because segment *segment\_name* is full. Reorg this index.**

**Cause:** An index segment ran out of disk space during the synchronization of an offline segment.

**Response:** The index is marked invalid and the synchronization is completed. Perform a REORG operation on the invalid index.

---

**RBA540E**     **Table *table\_name* needs to be reorganized.**

**Cause:** The table named in the error references a table that has been reloaded since the STAR index for the table was created. The table must be reorganized before it can be used.

**Response:** Notify the warehouse administrator and/or perform a REORG operation on the table.

---

**RBL541I**     **Cannot load table *table\_name* because the following tables referencing it are locked:**

**Cause:** User attempted to load a table in REPLACE mode when the tables that reference this table are locked. Message 508 lists each locked table.

**Response:** Ensure that the referencing tables are not locked.

---

**RBL542E**     **Tables are locked.**

**Cause:** Follows message 541.

---

**RBS543E**     **Column *column\_name* named more than once in primary or foreign key.**

**Cause:** User attempted to create a table with a column named more than once as part of a primary key or as part of a foreign key. For example, the following example will produce this error:

```
CREATE TABLE A (KEY1..., KEY2..., PRIMARY KEY (KEY1, KEY2, KEY1);
```

---

**RBL544W**     **Index *index\_name* has been marked invalid.**

**Cause:** The identified index was marked invalid because of an error during a TMU operation. Other messages show the final result of the TMU operation.

**Response:** Use the REORG command to reorganize the indicated index, or drop and recreate the index.

---

**RBA545E**     **The statement cannot complete because segment *segment\_name* is damaged.**

**Cause:** A segment required by the current operation cannot be used because it is damaged. Damage can be caused by physical I/O errors or by corrupted filenames, permissions violations, or other serious I/O-related errors.

**Response:** For a SELECT statement, the SET PARTIAL AVAILABILITY command can be used to force the statement to continue even if some data is unavailable. Refer to the Warehouse Administrator's Guide for information on recovering damaged segments.

---

**RBA546W**     **Damage detected in segment *segment\_name*: message**

**Cause:** A damaged condition was detected for the indicated segment. The message provides more information. In most cases, the message contains text and another message number, which you can look up in this reference guide for more information.

**Response:** To allow continued operation, issue an ALTER SEGMENT command to take the indicated segment offline. Refer to the Warehouse Administrator's Guide for information on repairing damaged segments.

---

**RBS547S**     **Query could not run in parallel mode because shared memory could not be allocated.**

**Cause:** The query would have been executed using parallelism, but it was not possible to

allocate sufficient shared memory. Typically, this is a result of having insufficient shared memory resources available. These resources can be increased on many systems by altering kernel tuning parameters.

**Response:** Ask your DBA to review and adjust the kernel parameters for shared memory.

---

**RBS548S      Query could not run in parallel mode because a sufficient number of processes could not be reserved.**

**Cause:** The query would have been executed using parallelism, but it was not possible to reserve the minimum number of processes required to execute the query in parallel mode. Typically, at least two processes are required to execute a query in parallel mode. There are two possible reasons why no processes could be reserved:

(1) Other concurrent queries are being run in parallel mode and there are not enough processes left to run this query in parallel. The maximum number of processes that can be allocated to execution of queries in parallel mode is specified by the value of the TOTALQUERYPROCS parameter in the rbw.config file.

(2) The number of processes that a single query can use to execute a query in parallel (specified by the value of the QUERYPROCS parameter in the rbw.config file) is less than the minimum number required to run this query in parallel.

**Response:** Contact your database administrator to add/alter the rbw.config file TOTALQUERYPROCS and/or QUERYPROCS parameters.

---

**RBL549E      UNLOAD file too big to use native (tar) format.**

**Cause:** An UNLOAD operation was requested, and output was directed to a native format (that is, tar archive format) tape. The UNLOAD operation could not be performed using this output format because the amount of data to be unloaded exceeded the maximum size allowed

for a tar archive. The maximum size for a tar archive is one byte less than 8 gigabytes (8,589,934,591 bytes). This maximum size is determined by the IEEE-POSIX tar format standard.

**Response:** Choose the Standard Label tape format instead of native format. The Standard Label tape format has no maximum size constraint.

---

**RBS550E      A query cannot reference a table and a view on the same table.**

**Cause:** In the FROM clause, a query or subquery contained both a table and a view on the table.

---

**RBS551E      The reference to *table.column* in a FROM clause subquery is illegal.**

**Cause:** Correlated subqueries in the FROM clause are not allowed to reference columns in any query containing the FROM clause. The table and column name represent the illegal reference.

---

**RBS552E      The reference to column alias *column* in a FROM clause subquery is illegal.**

**Cause:** See message 551.

---

**RBS553E      All columns in a multi-column index key must be defined as NOT NULL.**

**Cause:** One or more columns named in the key list of the CREATE INDEX statement are not defined with the NOT NULL attribute.

**Response:** Remove the column from the index list, or recreate the table and define all columns in the key list as NOT NULL.

---

**RBS554E      The index '*index\_name1*' is a duplicate of the index '*index\_name2*'.**

**Cause:** The new index being created is identical to an existing index. It is the same type of index and has the same key as an existing index.



**Response:** None necessary. The new index is redundant.

---

**RBS555W**      **Rows not updated due to referential integrity failure:**  
*number.*

**Cause:** The indicated number of rows were not updated because the UPDATE operation would have caused the rows to violate the referential integrity specified by the foreign key relationships declared when the table was created.

---

**RBA556F**      **Current database not compatible with this version of Red Brick Warehouse. Run TMU UPGRADE command.**

**Cause:** The RB\_DEFAULT\_IDX file is an earlier version than expected.

**Response:** The warehouse administrator should run the UPGRADE command to upgrade the file to the current version.

---

**RBL557E**      **Attempted copy of *file\_name* to *file\_name* before UPGRADE processing failed.**

**Cause:** The "cp" command that is attempted at the beginning of the UPGRADE processing failed. This command is intended to save a copy of the RB\_DEFAULT\_IDX file before the UPGRADE of that file is attempted. Running out of disk space or cancelling the UPGRADE operation are two possibilities for command failure.

**Response:** Ensure that the database directory has enough disk space to copy the RB\_DEFAULT\_IDX file and try the UPGRADE operation.

---

**RBL558E**      **UPGRADE command does not need to be run on database *database\_name*.**

**Cause:** The current database has either already been upgraded or does not need to be upgraded

because it was created with the current version of Red Brick Warehouse.

**Response:** None necessary. An UPGRADE operation does not need to be performed on this database.

---

**RBL559I**      **UPGRADE of Red Brick Warehouse database *database\_name* successful.**

**Cause:** The UPGRADE operation of the specified Red Brick Warehouse database was successful.

**Response:** You can now use this database with the new version of Red Brick Warehouse. You do not need to rerun the UPGRADE command on this database.

---

**RBL560I**      **Restore process will re-start the database *db* now.**

**Cause:** The specified database was terminated at the end of the restore operation. The restore process will re-start it.

**Response:** None necessary.

---

**RBL562F**      **Failed to restore from the backup media '*file\_name*'. This backup media does not contain an IBM Red Brick Warehouse backup.**

**Cause:** The TMU failed to restore from the listed backup file/device because it does not contain an IBM Red Brick Warehouse backup.

**Response:** Ensure that IBM Red Brick Warehouse backup files are placed in the correct backup location and reissue the command.

---

**RBL563F**      **Failed to restore from the backup media '*file\_name*'. Data stored in this backup media is from an incompatible database version *string*.**

**Cause:** The TMU failed to restore from the listed file/device because it does not contain an IBM Red Brick Warehouse backup that is

compatible with the current version of the database.

**Response:** Ensure that correct backup files are placed in the backup location and that the database was created with the same version of IBM Red Brick Warehouse used to perform the BACKUP and RESTORE operations.

---

**RBS564E      CREATE INDEX must reference a base table.**

**Cause:** A CREATE INDEX statement specified an object that is not a base table. Indexes can be created only on base tables. Indexes cannot be created on views, synonyms, or model tables.

**Response:** Rewrite the CREATE INDEX statement to reference a base table and resubmit the statement.

---

**RBS565E      Illegal disjunction with outer join.**

**Cause:** The user issued a query with an outer join specified in the WHERE clause, but there was an OR operator between the join specification and some other constraint or join specification.

**Response:** Correct the query.

---

**RBL567F      Insufficient authority to perform BACKUP operation.**

**Cause:** The user who issued the BACKUP command did not have the required authority. To backup a database, a user must have BACKUP\_DATABASE authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBL568I      The directory path specified is too long.**

**Cause:** The directory specification is longer than the maximum length allowed by your platform.

**Response:** Find the longest permissible path length (MAXPATHLEN) for your platform. Adjust the directory path string accordingly.

---

**RBL569W      Table *table\_name* has one or more invalid indexes. A REORG will be required after operation is complete.**

**Cause:** Since the offline load was performed, one or more indexes on the table has become invalid . Possible causes of an invalid index are: the MAXSEGMENTS or MAXROWS PER SEGMENT value was changed for one of the tables referenced by a foreign key; one of the referenced tables has been reloaded; or, a segment has been attached or detached from the index.

**Response:** After using a SYNCH command to synchronize the segment with the table and indexes (or an ALTER SEGMENT ... CLEAR command to remove all the rows from the segment), bring the segment online (if needed) and perform a REORG operation on the table.

---

**RBL570I      Foreign backup has reset backup data sucessfully.**

**Cause:** Foreign backups erase backup data from the backup segment.

**Response:** No response needed.

---

**RBA571F      Database restore operation could not re-start database.**

**Cause:** A severe error occurred while trying to re-start the shared database services. The restored database is expected to be sane.

**Response:** Please stop and re-start the database and check the database before executing the remaining TMU commands. If the problem persists, contact Customer Support.

---

**RBL572E      BAR\_UNIT\_SIZE specified is invalid.**

**Cause:** Minimum BAR\_UNIT\_SIZE value is 1M. Maximum BAR\_UNIT\_SIZE value for backup to DIRECTORY is 2G - 8K. Specify a valid value and reissue the command.

**Response:** No response.

---

**RBL574E      Cannot restore database backed up from 'file\_name' into current database 'database\_name'.**

**Cause:** An attempt was made to restore a BACKUP operation done in one database into a different database.

**Response:** If you are trying to move a database, use the UNLOAD command or the rb\_cm facility. If you are trying to restore a backup, ensure that the RB\_PATH value is the same as the value used during the BACKUP operation.

---

**RBL575I      Ready the next TAR tape for file file\_name.**

**Cause:** The TMU has reached the end of a tape while reading a tar archive file. The next tape in a multi-tape tar archive should be mounted.

**Response:** Prepare and mount the next tape in the set. Because of the UNIX standard format for multi-tape tar archives, there is no way for the software to detect whether or not the sequentially-correct tape has been mounted. Ensure that you mount the next sequential tape in the set.

---

**RBA576E      Possible deadlock detected.  
Tableid:number Lock type:string.**

**Cause:** The current command was about to wait for a lock, but has already acquired a different lock for which some other process is already waiting.

**Response:** Wait a few moments and then resubmit the command.

---

**RBA579W      The current statement has invalidated existing incremental backups. A full backup is now required prior to any incremental backup.**

**Cause:** The current statement has modified the database in such a way that existing incremental backups are no longer valid with the last full backup. A new full backup must be done before any incremental backups are attempted.

**Response:** The DBA must do a full backup prior to attempting any incremental backups.

---

**RBS580E      Nested views cannot contain correlated subqueries.**

**Cause:** A CREATE VIEW statement contained a reference to a view that contained a correlated subquery. Such views are not currently supported.

**Response:** Create the view without using a reference to another view that contains a correlated subquery.

---

**RBS581E      Subqueries cannot contain references to aggregated expressions at an outer level.**

**Cause:** A query was issued that contained both a reference to a view in the FROM clause and a correlated subquery that referenced a column from the view that was an aggregation function or an expression containing an aggregation function: for example,  $\text{sum(dol)} / 1000000$ .

**Response:** Some queries of this nature can be recast by modifying the query to perform the same operation as the view. However, this workaround is not possible in all cases.

---

**RBS582E      Scalar function function\_name argument number was type data\_type and was expected to be one of data\_type.**

**Cause:** A scalar function was invoked with an invalid datatype for one of the arguments.

**Response:** Correct the statement to use one of the expected datatypes for the function argument.

---

**RBS583E      Scalar function TIMESTAMP called with number arguments but it expects one or two arguments.**

**Cause:** The TIMESTAMP function accepts one character argument or a date argument followed by a time argument.

**Response:** Correct the statement to use one of

the expected datatypes for the function argument.

---

**RBS584E**      **DATE, TIME, or TIMESTAMP value not allowed as argument to scalar function *function\_name*.**

**Cause:** The specified function was given a DATETIME value.

**Response:** Correct the statement to use one of the expected datatypes for the function argument.

---

**RBL585E**      **Invalid datepart '*string*' specified for function *function\_name*.**

**Cause:** The datepart specification was not recognized.

**Response:** Correct the statement to use one of the supported datepart specifiers. Valid values are: YEAR, YY, QUARTER, QQ, MONTH, MM, DAY OF YEAR, DY, DAY, DD WEEK, WK, WEEKDAY, DW, HOUR, HH, MINUTE, MI, SECOND, SS, MILLISECOND, MS.

---

**RBS586E**      **Invalid DATEFORMAT value '*string*'. Valid values are MDY, DMY, YMD, YDM, MYD, or DYM.**

**Cause:** The value on the SET DATEFORMAT command was invalid.

**Response:** Correct the statement to specify a valid format.

---

**RBL587E**      **Illegal type conversion. DATETIME cannot be converted to CHARACTER or VARCHAR. (Column *column\_name* of table *table\_name*).**

---

**RBL588F**      **Illegal type conversion. Must be a DATE or TIMESTAMP. (Column *column\_name* of table *table\_name*).**

**Cause:** The table column has a DATE type and can accept only DATE or TIMESTAMP data. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL589F**      **Illegal type conversion. Must be a TIME or TIMESTAMP. (Column *column\_name* of table *table\_name*).**

**Cause:** The table column has a TIME type and can accept only TIME or TIMESTAMP data. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL590F**      **Illegal type conversion. Must be a DATE, TIME, or TIMESTAMP. (Column *column\_name* of table *table\_name*).**

**Cause:** The table column has a TIMESTAMP type and can accept only DATE, TIME, or TIMESTAMP data. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL591F**      **Invalid date mask '*string*' for column *column\_name*.**

**Cause:** The date mask does not correctly specify a date format. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL592F**      **Invalid time mask '*string*' for column *column\_name*.**

**Cause:** The time mask does not correctly specify a time format. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL593F**      **Invalid time-stamp mask '*string*' for column *column\_name*.**

**Cause:** The time-stamp mask does not correctly specify a time stamp format. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL594F**      **DATETIME mask 'string' for column *column\_name* is missing a specification for YEAR.**

**Cause:** The mask is invalid because it does not have a year specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL595F**      **DATETIME mask 'string' for column *column\_name* is missing a specification for HOUR.**

**Cause:** The mask is invalid because it does not have an hour specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL596F**      **DATETIME mask 'string' for column *column\_name* has more than one YEAR specification.**

**Cause:** The mask is invalid because it contains more than one year specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL597F**      **DATETIME mask 'string' for column *column\_name* has both month and/or day and Julian day or multiple Julian specifications.**

**Cause:** The mask is invalid because it contains more than one specification for a day in the year. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL598F**      **DATETIME mask 'string' for column *column\_name* has more than one MONTH specification.**

**Cause:** The mask is invalid because it contains more than one month specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL599F**      **DATETIME mask 'string' for column *column\_name* has more than one DAY specification.**

**Cause:** The mask is invalid because it contains more than one day specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL600F**      **DATETIME mask 'string' for column *column\_name* has more than one HOUR specification.**

**Cause:** The mask is invalid because it contains more than one hour specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL601F**      **DATETIME mask 'string' for column *column\_name* has more than one MINUTE specification.**

**Cause:** The mask is invalid because it contains more than one minute specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL602F**      **DATETIME mask 'string' for column *column\_name* has more than one SECOND specification.**

**Cause:** The mask is invalid because it contains more than one second specification.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL603F**      **DATETIME mask 'string' for column *column\_name* has more than one fractional second specification.**

**Cause:** The mask is invalid because it contains more than one fractional second specification.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL604W**      **Data integrity failure on constraint 'constraint', column 'column\_name', value 'year-month-day'string**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL605W**      **Data integrity failure on constraint 'constraint', column 'column\_name', value 'hour:minute:second.fraction'string**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL606W**      **Data integrity failure on constraint 'constraint', column 'column\_name', value 'year-month-day hour:minute:second.fraction'.**

**Cause:** Supplemental information to message 737.

**Response:** Check the data contents.

---

**RBL607W**      **String starting with 'string' does not specify a valid month name. Table *table\_name* column *column\_name* row *number*.**

**Cause:** The TMU expected either a full month name or a three-letter month abbreviation but

did not find one. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents.

---

**RBL608W**      **Invalid numeric value for DATETIME field 'number'. Table *table\_name* column *column\_name* row *number*.**

**Cause:** Data content error. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents.

---

**RBA609W**      **Year value 'number' is out of range. Valid values are from *number* to *number*.**

**Cause:** Data content error. Possible causes are that an invalid mask was specified in the TMU control file or that a setting for the DATEFORMAT parameter did not match the data. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.

---

**RBA610W**      **Month value 'number' is out of range. Valid values are from *number* to *number*.**

**Cause:** Data content error. Possible causes are that an invalid mask was specified in the TMU control file or that a setting for the DATEFORMAT parameter did not match the data. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.

---

**RBA611W**      **Day value 'number' is out of range for string. Valid values are from *number* to *number*.**

**Cause:** Data content error. Possible causes are that an invalid mask was specified in the TMU



control file or that a setting for the DATEFORMAT parameter did not match the data. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.

---

**RBA612W** Hour value '*number*' is out of range. Valid values are from *number* to *number*.

**Cause:** Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents and the supplied date mask.

---

**RBA613W** Minute value '*number*' is out of range. Valid values are from *number* to *number*.

**Cause:** Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents and the supplied date mask.

---

**RBA614W** Second value '*number*' is out of range. Valid values are from *number* to *number*.

**Cause:** Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents and the supplied date mask.

---

**RBA615W** Microsecond value '*number*' is out of range. Valid values are from *number* to *number*.

**Cause:** Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard

file and the LOAD operation continued.

**Response:** Check the data contents and the supplied date mask.

---

**RBL616F** DATETIME mask '*string*' for column *column\_name* has more than one AM/PM specification.

**Cause:** The mask is invalid because it contains more than one AM/PM specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL617W** Did not find the expected AM/PM specification. Instead found '*string*'. Table *table\_name* column *column\_name* row *number*.

**Cause:** Data content error. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the input data or the discard file.

---

**RBL618F** Too many occurrences of field specifier mask character '*character*' for column *column\_name*. This character was specified *number* times and can appear at most *number* times for the given field.

**Cause:** The specified field might be larger than allowed. If a value can contain at most two digits, then at most two characters can be in the field specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL619W** Expected separator character '*character*' and got '*character*' (hex *hex\_character*)' instead. Table *table\_name* column *column\_name* row *number*.

**Cause:** A DATETIME mask specified a particular character as a field separator and the

character was not found. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the input data or the discard file.

---

**RBL620F**      **Constant for field 'character' for column *column\_name* contains too many digits to be valid. The maximum number of digits is *number*.**

**Cause:** A numeric constant for a DATETIME field contains too many digits to be a valid value. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL621W**      **Value for field 'character' contains too many digits to be valid. The maximum number of digits is *number*. Table *table\_name* column *column\_name* row *number*.**

**Cause:** A numeric value for a DATETIME field contains too many digits to be a valid value. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the input data or the discard file.

---

**RBS622E**      **Cannot put a DATE, TIME, or TIMESTAMP value into a CHARACTER or VARCHAR column.**

**Cause:** An INSERT or UPDATE statement attempted to put a DATE, TIME, or TIMESTAMP value into a column that has a CHARACTER or VARCHAR datatype.

**Response:** Rewrite the statement to use the STRING scalar function to convert the datetime datatype to a string.

---

**RBS623E**      **Cannot put a DATE, TIME, or TIMESTAMP value into numeric column.**

**Cause:** An INSERT or UPDATE statement attempted to put a DATE, TIME, or TIMESTAMP value into a column that has a numeric datatype.

**Response:** Rewrite the statement to use the DATEPART scalar function to extract the desired part.

---

**RBS624E**      **Cannot put a DATE value into TIME column.**

**Cause:** An INSERT or UPDATE statement attempted to put a DATE value into a column that has a TIME datatype.

**Response:** Correct and resubmit the statement.

---

**RBS625E**      **Cannot put a TIME value into DATE column.**

**Cause:** An INSERT or UPDATE operation attempted to put a TIME value into a column that has a DATE datatype.

**Response:** Correct and resubmit the statement.

---

**RBS626E**      **Expected '(' after &.**

**Cause:** Syntax error in RB\_TRANSLATE file.

**Response:** Correct and resubmit the statement.

---

**RBS627E**      **Expected ')' after string variable number.**

**Cause:** Syntax error in RB\_TRANSLATE file.

**Response:** Correct and resubmit the statement.

---

**RBS628E**      **The string variable number must be an integer.**

**Cause:** The string variable number in RB\_TRANSLATE file is not an integer.

**Response:** Correct and resubmit the statement.



---

**RBS629E**      **Valid range for string variable numbers is 1 to 255.**

**Cause:** The string variable number in RB\_TRANSLATE file must be between 1 and 255.

**Response:** Correct and resubmit the statement.

---

**RBS630E**      **Too many string variables in an RB\_TRANSLATE statement.**

**Cause:** An RB\_TRANSLATE statement cannot have more than 255 string variables.

**Response:** Correct and resubmit the statement.

---

**RBS631E**      **The TO clause of an RB\_TRANSLATE statement is missing.**

**Cause:** An RB\_TRANSLATE statement must contain both FROM and TO clauses.

**Response:** Correct and resubmit the statement.

---

**RBS632E**      **Unexpected end of file for RB\_TRANSLATE.**

**Cause:** The last statement of the RB\_TRANSLATE file is incomplete.

**Response:** Correct and resubmit the statement.

---

**RBL633I**      **Created temporary dump file *file\_name* for invalid rows in *table\_name*.**

**Cause:** Illegal rows were encountered in the indicated table during a REORG operation and were removed from the table. The rows were written to the indicated temporary file in UNLOAD (internal) format.

**Response:** The deleted rows can be found in the file named in the message; these rows can be reloaded into a table using the FORMAT UNLOAD clause.

---

**RBS634E**      **Synonyms used as foreign keys must specify the same ON DELETE action.**

**Cause:** The user attempted to create a table with foreign keys where two or more foreign keys were specified. At least one of the tables named as a foreign key table was a synonym, and the ON DELETE action specified for the synonym was not the same as that specified for another synonym on the same table or on the base table itself.

**Response:** Ensure that all delete actions on synonyms of the same table specify the same action (either all CASCADE or all NO ACTION).

---

**RBS635I**      **A relation scan was performed.**

---

**RBS636W**      **DELETE operation contained mixed ON DELETE actions; converted all to NO ACTION.**

**Cause:** The target table in the DELETE statement had referencing tables that specified different ON DELETE actions. The delete operation will be treated as if all referencing table had specified NO ACTION.

**Response:** Ensure that the delete actions are consistent (either all CASCADE or all NO ACTION) for all tables and synonyms.

---

**RBS637E**      **LOCK FOR DELETE must lock a base table.**

**Cause:** A LOCK TABLE ... FOR DELETE statement must name a base table as the target. A synonym cannot be locked.

**Response:** Lock the base table instead of a synonym.

---

**RBS638W**      **LOCK for delete operation contained mixed delete trigger actions; converted all to NO ACTION.**

**Cause:** The target table in the LOCK statement had referencing tables that specified different ON DELETE actions. The delete operation will be

treated as if all referencing tables had specified NO ACTION.

**Response:** Ensure that the delete actions are consistent (either all CASCADE or all NO ACTION) for all tables and synonyms.

---

**RBS639W     Unable to lock table *table\_name* for delete because the following tables are locked:**

**Cause:** The target table in the LOCK statement had referencing tables that were locked by other users. This error is always followed by error 508, which lists the tables that prevent the locking of the target table for delete.

**Response:** Either set the wait mode to WAIT or wait for the tables to become available.

---

**RBS640E     Delete all rows from *table\_name* failed because it violated referential integrity of foreign key constraint *constraint\_name* with table *table\_name*.**

**Cause:** The user issued a DELETE FROM table statement with no constraints, and one of the tables referencing the target table was not empty. Deleting the rows from the target table would violate referential integrity.

**Response:** Delete all the rows in all referencing tables or use the DELETE ... OVERRIDE REFCHECK command. Overriding the referential integrity check is not recommended.

---

**RBS641E     The table *table\_name* is already locked.**

**Cause:** The user issued a LOCK command to explicitly lock a table and then issued a DELETE statement against another table that was not explicitly locked for a delete operation.

**Response:** Do not delete from a table while another table is locked.

---

**RBS642I     Deleted *number* rows from *table\_name* cascading on foreign key constraint *constraint\_name*.**

**Cause:** This message provides the number of rows deleted from a table because of a cascaded delete operation on the specified foreign key/primary key constraint.

**Response:** None necessary.

---

**RBL643F     DATETIME constant field '*character*' for column *column\_name* did not have a value.**

**Cause:** A DATETIME field with a constant value field was not followed by a numeric constant. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL644F     DATETIME constant field '*character*' for column *column\_name* has an invalid value *number*. Value must be between *number* and *number* inclusive.**

**Cause:** A constant DATETIME value was specified that is out of range for the fieldtype. The valid value range for the fieldtype is included in the message. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL645F     DATE mask '*string*' for column *column\_name* contains a TIME value.**

**Cause:** At least one TIME field was present in DATE specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL646F**      **TIME mask 'string' for column *column\_name* contains a DATE value.**

**Cause:** At least one DATE field was present in TIME specification. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL647F**      **The century value specified in the mask 'string' for column *column\_name* is invalid. Valid values are 0 to 99.**

**Cause:** The DATETIME field specified a century value that was not in the accepted range of values. The LOAD operation terminated.

**Response:** Correct and resubmit the LOAD DATA statement.

---

**RBL648W**      **Detected hour value *number* greater than 12 with AM specification. Column *column\_name* row number of table *table\_name*.**

**Cause:** Data value error. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the input data or the discard file.

---

**RBL649W**      **DATETIME data error. Column *column\_name* row number of table *table\_name*.**

**Cause:** Data value error. Record placed in a discard file. The cause of the DATETIME error will be in a previous message. This message provides the information about the column that had the error.

**Response:** Check the input data or the discard file.

---

**RBL650W**      **Detected hour of zero with PM specification. Column *column\_name* row number of table *table\_name*.**

**Cause:** Data value error. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the data contents. Check the input data or the discard file.

---

**RBS651E**      **Time value 'string' contains a PM value when the hour is zero.**

**Cause:** 0 PM is not a valid time value.

**Response:** Correct the value and resubmit the statement.

---

**RBS652I**      *number* rows not deleted from *table\_name* because their deletion would have violated referential integrity of foreign key constraint *constraint\_name* with table *table\_name*.

**Cause:** This message indicates the number of rows not deleted from a table during a NO ACTION delete operation. Note: A row may be counted more than once if a USING clause is specified and the join does not identify distinct rows in the table from which the rows are being deleted.

---

**RBS653E**      **MAXROWS PER SEGMENT value must be a non-zero positive integer.**

**Cause:** A value was supplied in the MAXROWS PER SEGMENT clause that is not in the valid range. Legal values are non-zero positive integers.

**Response:** Correct the MAXROWS PER SEGMENT value and resubmit the CREATE or ALTER TABLE statement.

RBA654E	<p><b>Data cannot be inserted or updated into the table because the maximum number of rows per segment has been reached</b><i>string</i></p>	<p>RBW_RELATIONSHIPS WHERE PKTABLE = 'table_name');</p> <p>(where 'table_name' is the name of the table that was altered).</p>
	<p><b>Cause:</b> The number of rows in the segment into which this row is to be inserted or updated is equal to the table's MAXROWS PER SEGMENT. No more rows can be inserted or updated into the table until the MAXROWS PER SEGMENT value is changed. If the row contains VARCHAR columns, the actual number of rows in the table may be less than MAXROWS PER SEGMENT. If there is a large difference between the number of rows and MAXROWS PER SEGMENT, the FILLFACTORS for VARCHAR columns have been set wrongly.</p> <p><b>Response:</b> ALTER the MAXROWS PER SEGMENT value for the table. If there is a big difference between the number of rows in the segment and MAXROWS PER SEGMENT, refer to the Warehouse Administrator's Guide for information on setting the FILLFACTOR for VARCHAR columns.</p>	<p>Until the REORG operations are run, any operation (such as a load) that tries to modify a table with an affected STAR index will fail, issuing an error message that the affected STAR index is invalid.</p>
RBS655W	<p><b>REORG of referencing table STAR indexes will be required for changed MAXSEGMENTS or MAXROWS PER SEGMENT value to take effect.</b></p>	<p><b>RBS656E</b>      <b>Cannot change the MAXSEGMENTS value to less than <i>number</i>, the maximum number of segments ever attached to the table.</b></p> <p><b>Cause:</b> An ALTER TABLE CHANGE MAXSEGMENTS statement attempted to set MAXSEGMENTS to a value less than the maximum number of segments ever attached to the table.</p> <p><b>Response:</b> Supply a MAXSEGMENTS value greater than the number of segments specified in this message.</p>
	<p><b>Cause:</b> An ALTER TABLE CHANGE MAXSEGMENTS or ALTER TABLE CHANGE MAXROWS PER SEGMENT command was issued that affects any STAR index containing a foreign key column that references the altered table. Tables with affected STAR indexes cannot be modified until the indexes are rebuilt.</p> <p><b>Response:</b> None necessary, but issuing a REORG command against a referencing table will cause its STAR index(es) to be rebuilt reflecting the new MAXSEGMENTS or MAXROWS PER SEGMENT value.</p> <p>The following query can be used to identify the affected STAR indexes:</p> <pre>SELECT DISTINCT INAME FROM RBW_INDEXCOLUMNS WHERE FKNAME IN (SELECT FKCONSTRAINT FROM</pre>	<p><b>RBS657W</b>      <b>Segment <i>segment_name</i> can currently hold only <i>number</i> rows.</b></p> <p><b>Cause:</b> The supplied MAXROWS PER SEGMENT value is greater than the number of rows the supplied data segment can hold at its current MAXSIZE value.</p> <p><b>Response:</b> None necessary, but the segment will fill up before the MAXROWS PER SEGMENT value is reached unless an ALTER SEGMENT operation is done.</p>
	<p><b>RBS658E</b>      <b>Cannot change MAXROWS PER SEGMENT value to less than <i>number</i>, the largest number of rows ever in a segment of this table.</b></p> <p><b>Cause:</b> The supplied MAXROWS PER SEGMENT value is less than the largest number of rows ever stored in any segment of this table.</p> <p><b>Response:</b> Supply a MAXROWS PER</p>	

SEGMENT value that is larger than the largest number of rows ever stored in any segment of this table.

---

**RBS659I**      **Thread *number* subprocess id *number* is being terminated due to ON ERROR ABORT.**

**Cause:** A parallel command had the ON ERROR ABORT clause and detected that one of the subprocesses failed. The other subprocesses are being terminated.

**Response:** None necessary.

---

**RBS660W**      **Unable to start *number* subprocesses. Reason: *os\_error***

**Cause:** Due to operating system resource limits, a parallel command was not able to create all the subprocesses required.

**Response:** Either try the command without as much parallelism (that is, do not specify as many CREATE INDEX clauses in a single command) or try the command at a different time when there might be less resource contention on the machine.

---

**RBS661E**      **Attempted to create *number* indexes. *number* created successfully and *number* failed.**

**Cause:** After a parallel index creation, this message gives the final status of how many indexes were not created. Preceding messages explain why each index was not created.

**Response:** None necessary.

---

**RBS662W**      **Thread *number* subprocess id *number* terminated with signal *number*.**

**Cause:** A subprocess terminated abruptly. Possible causes of the termination are: an ON ERROR ABORT clause on a parallel command, which will kill all subprocesses when an error is detected in one of them; an internal error in the subprocess; or, some outside user or processes manually killing the subprocess.

**Response:** If the signal number is not 9, this is probably an internal error. Notify Customer Support.

If the signal number is 9 and was preceded by a message stating that a subprocess was being terminated because of an ON ERROR ABORT clause, you can ignore this message.

If the signal number is 9 and there was no preceding message, then some outside user or process killed the subprocess. Notify your operating-system administrator.

---

**RBS663W**      **Unable to start subprocess for thread *number*. Reason: *os\_error***

**Cause:** Due to operating system resource limits, a parallel command was not able to create all the subprocesses required.

**Response:** Either try the command without as much parallelism (that is, do not specify as many CREATE INDEX clauses in a single command) or try the command at a different time when there might be less resource contention on the machine.

---

**RBS664W**      **Parallel index for thread *number* index name '*index\_name*' failed.**

**Cause:** This message was preceded by some other message that contained a thread number and the actual reason for the failure.

**Response:** None necessary.

---

**RBS665E**      **Insufficient authority to ALTER TABLE *table\_name*.**

**Cause:** The user did not have the required authority to alter the table named in the statement. To alter a table, a user must have ALTER\_ANY authorization, be a member of the DBA system role, be the creator of the table and be a member of the RESOURCE system role, or be the creator of the table and have ALTER\_OWN and ALTER\_TABLE\_INTO\_ANY authorizations (if using the IN\_PLACE option, the user need not have ALTER\_TABLE\_INTO\_ANY authorization).

**Response:** Verify that the user has the correct authority to alter the table named in the statement.

---

**RBS666E      ALTER TABLE must reference a base table.**

**Cause:** The ALTER TABLE statement specified a synonym, view, temporary table, model table, or system table. Only base tables can be altered.

**Response:** Correct the statement to reference a base table.

---

**RBS667E      Cannot add column *column\_name* because it already exists.**

**Cause:** A column named in an ALTER TABLE ... ADD COLUMN statement was already in the table. The table was not altered.

**Response:** Verify the name of the column. The column can be dropped using ALTER TABLE DROP COLUMN.

---

**RBS668E      Cannot drop column *column\_name* because it is not in the table.**

**Cause:** The column named does not exist in the table, and thus cannot be dropped. The table is not altered.

**Response:** Verify the ALTER TABLE statement and the table's current definition in RBW\_COLUMNS and RBW\_TABLES.

---

**RBS669E      Invalid constant in column default value.**

**Cause:** The default value in an ALTER TABLE statement was either not type compatible with the column definition, or it was not a constant expression.

**Response:** Verify that the column's type is assignment compatible with the default value.

---

**RBS670E      DEFAULT or RANGE value for column *column\_name* would cause truncation or overflow.**

**Cause:** The default or range value declared would have to be truncated in order to assign the value to the column, or else it would cause an overflow error.

**Response:** Verify that the number of digits in the column's datatype will hold the desired value. If the column is FLOAT, REAL or DOUBLE PRECISION, be certain that the value will not cause an underflow or overflow.

---

**RBS671E      Column *column\_name* cannot be dropped because it is part of the table's primary key.**

**Cause:** It is not possible to drop any column that is part of the primary key of the table.

**Response:** If it is necessary to drop a column in the primary key, drop the table and recreate the table.

---

**RBS672I      Cannot drop column *column\_name* because it is referenced by the following:**

**Cause:** The named column cannot be dropped because it is referenced in at least one view or index. This informational message is always followed by message number 673, 676, or 822, which list the views and indexes that make use of this column.

**Response:** If it is necessary to drop the column, all views and indexes that reference this column must first be dropped and then recreated after the column has been dropped.

---

**RBS673I      View *view\_name* (id *number*).**

**Cause:** This message is always preceded by message number 672. Refer to message 672 for more information. It is followed either by another message 673, 676, or 674, or by message 822.



---

**RBS674E      ALTER TABLE statement rejected.**

**Cause:** This is the last message in a series of messages that explain why a column cannot be dropped. Refer to message 672 for more information. Note that no changes were made to the table.

---

**RBS675E      CASCADE keyword not implemented for DROP COLUMN.**

**Cause:** The CASCADE option for the DROP COLUMN command is defined in the SQL-92 standard, but it is not implemented in this release of Red Brick Warehouse.

---

**RBS676I      Index *index\_name* (id *number*).**

**Cause:** This message is always preceded by message number 672. Refer to message 672 for more information. It is followed either by another message 673, 676, or 674 or by message 822.

---

**RBS677E      Cannot add column *column\_name* with NOT NULL and specify DEFAULT NULL.**

**Cause:** The user attempted to alter a table by adding a column declared NOT NULL and specifying a NULL value for the column's default.

**Response:** Decide whether the column should allow null values. If the column should not allow null values, specify a new, non-null default value.

---

**RBS678E      Cannot drop all columns from a table.**

**Cause:** The user attempted to alter a table by dropping all of its columns.

**Response:** To redefine the entire table, drop it and create a new one.

---

**RBS679E      There is no pending ALTER TABLE operation on table *table\_name*.**

**Cause:** The user attempted to reset an interrupted or incomplete ALTER TABLE operation; however, any ALTER TABLE operation executed on the named table was already complete.

**Response:** Ensure that the correct table was named in the ALTER TABLE ... RESET command.

---

**RBS680E      ALTER TABLE ... RESET not allowed on an IN\_PLACE alter operation.**

**Cause:** The user attempted to reset an interrupted ALTER TABLE operation, but the original ALTER TABLE operation used the IN\_PLACE option; the RESET operation cannot be used to recover from an interrupted IN\_PLACE operation.

**Response:** Either use ALTER TABLE ... RESUME to finish the operation, or drop the table and recreate it.

---

**RBL681W      Input row *number* does not match existing key. Row discarded.**

**Cause:** During a LOAD operation in either UPDATE or UPDATE AGGREGATE mode, an input row's primary key did not match the primary key of any current row in the table. The record was placed in a discard file and the LOAD operation continued.

**Response:** Correct and reload the data.

---

**RBL682W      Input row *number* does not pass the ACCEPT/REJECT comparison. Row discarded.**

**Cause:** The comparison specified in the LOAD statement was evaluated for this input row. The result of the comparison indicated that the row was not to be loaded. The record was placed in a discard file and the LOAD operation continued.

**Response:** Correct and reload the data.

---

**RBL683F**      **Cannot use aggregate operators when not in an AGGREGATE mode.**

**Cause:** An aggregate mode specific operator was supplied, but the load was not specified as being in one of the two AGGREGATE modes. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL684F**      **Cannot use aggregate mode operator on primary key column *column\_name*.**

**Cause:** An aggregate-mode operator was specified on a primary key column. Primary key columns cannot be updated with an aggregate-mode operator. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL685F**      **Cannot use aggregate mode operator on pseudocolumn *pseudocolumn\_name*.**

**Cause:** An aggregate-mode operator was specified on a pseudocolumn. Aggregate-mode operators cannot be used on pseudocolumns because the value depends on the current value of a real column in the table being loaded. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL686F**      **Cannot use ACCEPT/REJECT clause when not in an AGGREGATE mode.**

**Cause:** An ACCEPT/REJECT clause was included in a LOAD DATA statement that did not specify an aggregate mode. The ACCEPT/REJECT clause can be used only in UPDATE AGGREGATE or MODIFY AGGREGATE mode. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement.

---

---

**RBL687F**      **Cannot use aggregate mode operator on non-numeric column *column\_name*.**

**Cause:** An aggregate-mode operator was specified on a column that does not have a numeric datatype. Aggregate-mode operators cannot be used on non-numeric columns.

**Response:** Correct the LOAD DATA statement.

---

**RBL688F**      **Column *column\_name* in ACCEPT/REJECT clause is not a valid datatype.**

**Cause:** A column that was not a valid datatype was specified in the ACCEPT/REJECT clause. Only columns that have a numeric, CHARACTER, VARCHAR or DATETIME datatype can be used in the ACCEPT/REJECT clause.

**Response:** Correct the LOAD DATA statement.

---

**RBL689F**      **Result column *column\_name* of INCREMENT cannot be of CHARACTER or VARCHAR datatype.**

**Cause:** The INCREMENT operator was used with a result column that has the CHARACTER or VARCHAR datatype. The INCREMENT operator is valid only with numeric datatype columns.

**Response:** Correct the LOAD DATA statement.

---

**RBL690F**      **Illegal value *string* in INCREMENT statement.**

**Cause:** An illegal value was supplied to the INCREMENT operator.

**Response:** Correct the LOAD DATA statement.

---

**RBS691E**      **Cannot access table *table\_name* because there is a pending ALTER TABLE.**

**Cause:** The user attempted to access a table on which an ALTER TABLE operation was pending.



**Response:** If possible, complete the pending operation using the ALTER TABLE ... RESUME command. Otherwise, complete it using the ALTER TABLE ... RESET command.

---

**RBS692E      ALTER TABLE not allowed while a table is locked.**

**Cause:** The user submitted an ALTER TABLE statement while that table or referenced tables were locked.

**Response:** Ensure that the table and all tables referenced by it are unlocked before you submit an ALTER TABLE statement.

---

**RBS693E      Segment *segment\_name* must be at least *numberK*byte in size for this ALTER TABLE statement.**

**Cause:** The user submitted an ALTER TABLE command, and there was insufficient space in the target segment. The message reports the required number of kilobytes.

**Response:** Use the ALTER SEGMENT command to increase the MAXSIZE for the segment to the size reported in the message.

---

**RBS694E      ALTER TABLE must reference a base table, not a view, a temporary table or model table.**

**Cause:** A view, temporary table, or model table name was supplied in an ALTER TABLE statement.

**Response:** Correct and resubmit the statement.

---

**RBS695E      Dynamic parameter '?' not allowed in select list.**

**Cause:** A PREPARE statement of a SELECT statement found the dynamic parameter marker as a term in the select list.

**Response:** Correct the error and resubmit the command.

---

**RBS696E      Dynamic parameter '?' not allowed on both sides of a binary operator.**

**Cause:** A PREPARE statement found dynamic markers on both sides of a binary operator (that is: +, -, \*, /, =, <>, !=, <=, >=, <, > ). This is not allowed.

**Response:** Correct the error and resubmit the command.

---

**RBS697E      Dynamic parameter '?' not allowed with unary minus operator.**

**Cause:** A PREPARE statement found -? as an expression in the statement.

**Response:** Correct the error and resubmit the command.

---

**RBS698E      Dynamic parameter '?' not allowed as both the expression and first value of an IN operation.**

**Cause:** A PREPARE statement found the following repetition: "? IN (?,...)", which is not allowed.

**Response:** Move the marker to some other place in the IN list.

---

**RBS699E      '*fkey\_name*' does not identify a foreign key in the table.**

**Cause:** The supplied name was not a foreign key constraint name or the name of the column in a single column foreign key. The ON DELETE action applies only to foreign keys.

**Response:** Check the name and table definition.

---

**RBS700I      Cannot rename column *column\_name* because it is referenced by the following:**

**Cause:** The named column cannot be renamed because it is referenced in at least one view. This informational message is always followed by one or more occurrences of message 673, listing the views that make use of this column.

**Response:** To rename the column, first drop all views that reference the column, rename the column, and then recreate the views.

---

**RBL701W      The *tun\_set* specification is invalid and will be ignored.**

**Cause:** The parameter or SET command specified in the message uses invalid syntax.

**Response:** Correct the syntax and submit the command again.

---

**RBL702W      Segment '*segment\_name*' not being backed up due to index '*index\_name*' under construction.**

**Cause:** An index is marked "under construction." No file in that index segment index can be backed up at this time. The backup operation will continue, but the backup will not contain that index.

**Response:** None necessary.

---

**RBS703E      Grouping by view columns or column aliases is allowed only if the column does not contain aggregations, RISQL display functions, OLAP functions, or correlated subqueries.**

**Cause:** The user attempted to group by a column from a view or by a column alias, and that column was really an aggregation function (for example, SUM, MIN, AVG), a RISQL display function (for example, CUME), an OLAP function (for example, ROW\_NUMBER), an expression containing an aggregation function, or a correlated subquery. It is legal only to group by columns from a view that are simple columns, or expressions containing references to simple columns, and/or literal values. It is legal to group by a subquery, but only if the subquery does not reference columns from an outer SELECT.

**Response:** Rewrite the query, grouping on a different column.

---

**RBL704W      The *tun\_set* specification is invalid. The default value will be used.**

**Cause:** The parameter or SET command specified in the message requires a percentage value from 0 to 100.

**Response:** Submit the command again, using a valid percentage value.

---

**RBS705E      Segment *segment\_name* was specified twice.**

**Cause:** A list of segments needed for the statement had a duplicate entry.

**Response:** Correct and resubmit the statement.

---

**RBL706E      Insufficient authority to use segment *segment\_name* as work segment in an offline load.**

**Cause:** To use a segment as a working segment in an offline load, the user running the TMU must be the owner of the segment, have OFFLINE\_LOAD authority, or be a member of the DBA system role.

**Response:** Correct the LOAD DATA statement to specify a valid segment, or notify the warehouse administrator and request the required authority.

---

**RBS707W      The row count *number* will overflow the precise numeric type.**

**Cause:** According to the ANSI SQL specification, the COUNT function must return a precise numeric type with a scale of zero. This precludes using a floating point as the return type for the COUNT function. The actual numeric value returned for the COUNT function will be incorrect.

**Response:** Break up the query to count fewer rows and resubmit the command, or use the SET COUNT RESULT DECIMAL command to get the result as a DECIMAL(15,0).

---

**RBS708E**      **Wrong number of segments specified for alter of table *table\_name*. Need *number* but *number* specified.**

**Cause:** Either an ALTER TABLE statement specifying a multi-segment table did not specify a list of segments to alter into, or the number of segments in the list was different from the number of segments that comprise the table.

**Response:** Specify the correct number of segments in the ALTER TABLE statement.

---

**RBL709E**      **DDLFILE '*file\_name*' already exists.**

**Cause:** User issued an UNLOAD EXTERNAL or UPGRADE DDLFILE and specified an existing file to contain the generated DDL statements.

**Response:** Either delete the existing file or specify a new file to contain the DDL information.

---

**RBL710E**      **TMUFILE '*file\_name*' already exists.**

**Cause:** User issued an UNLOAD EXTERNAL command that specified an existing file to contain the generated TMU LOAD DATA command.

**Response:** Either delete the existing file or specify a new file to contain the TMU information for the unloaded table.

---

**RBL711E**      **Unable to open DDLFILE '*file\_name*'. Reason:*string*.**

**Cause:** A TMU UNLOAD EXTERNAL or UPGRADE DDLFILE process was not able to open the file for the DDL information. Possible causes are that the TMU runs as the "redbrick" user and did not have permission to open the file in the specified location, or that the specified location ran out of disk space.

**Response:** Ensure that the specified location has the correct privileges for the "redbrick" user and has enough space.

---

---

**RBL712E**      **Unable to open TMUFILE '*file\_name*'. Reason:*string*.**

**Cause:** The TMU UNLOAD EXTERNAL processes were not able to open the file for the table's TMU information. Possible causes are that the TMU runs as the "redbrick" user and did not have permission to write to the file in the specified location or that the specified location ran out of disk space.

**Response:** Ensure that the specified location has the correct privileges for the "redbrick" user and has enough space.

---

**RBL713E**      **Unable to write to DDLFILE '*file\_name*'. Reason:*string*.**

**Cause:** The TMU UNLOAD EXTERNAL or UPGRADE DDLFILE processes were not able to write the DDL information to the file. Possible causes are that the TMU runs as the "redbrick" user and the "redbrick" user did not have permission to write to the file in the specified location or that the specified location ran out of disk space.

**Response:** Ensure that the specified location has the correct privileges for the "redbrick" user and has sufficient space.

---

**RBL714E**      **Unable to write to TMUFILE '*file\_name*'. Reason:*string*.**

**Cause:** The TMU UNLOAD EXTERNAL processes was not able to write the table's TMU information to the file. Possible causes are that the TMU runs as the "redbrick" user and did not have permission to write to the file in the specified location or that the specified location ran out of disk space.

**Response:** Ensure that the specified location has the correct privileges for the "redbrick" user and has sufficient space.

---

**RBL715I**      **Terminating processing after receiving signal number *number*.**

**Cause:** The TMU received a termination signal such as SIGINT(2), SIGHUP(1), SIGQUIT(3), or

SIGTERM(15). SIGINT and SIGQUIT are usually generated by the terminal as the responses to the interrupt and quit characters (usually Control-C and Control-\\). SIGHUP is usually the result of a disconnected terminal.

**Response:** The TMU will clean up the LOAD operation in progress and then terminate. The TMU will ignore SIGHUP (terminal disconnected during operation) when it is executed with the UNIX nohup command.

---

**RBL716E      No command specified after the pipe character.**

**Cause:** An output file specification started with the UNIX pipe character (|), but the pipe character was not followed by a command.

**Response:** Correct and resubmit the statement.

---

**RBL717E      Pipe commands not allowed with tape output.**

**Cause:** An output file specification started with the UNIX pipe character (|), but the TMU command also included the TAPE DEVICE clause, which specified that the output go to a tape device.

**Response:** To pipe the output through a command to disk, remove the TAPE DEVICE clause. To send the output to a tape device, replace the pipe command with an output filename.

---

**RBL718E      Pipe commands not allowed with DISCARDFILE.**

**Cause:** A DISCARDFILE specification started with the UNIX pipe character.

**Response:** Remove the pipe command from the discard filename.

---

**RBL720F      Scale value *number* too large for column *column\_name*.**

**Cause:** A LOAD DATA field specification with a scaled numeric input value specified a scale value that was too large relative to the destination database column.

If the destination database column is unscaled (for example, a FLOAT column), then  $\text{abs}(\text{input\_scale})$  must be less than or equal to 8.

If the destination database column is scaled (for example, NUMERIC(9,3)), then  $\text{abs}(\text{database\_scale} - \text{input\_scale})$  must be less than or equal to 8.

The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL721F      No database path given.**

**Cause:** Neither the RB\_PATH environment variable nor the -d command line option was set. The TMU could not determine what database to access.

**Response:** Indicate the database to access by supplying a logical database name through either the RB\_PATH environment variable or the -d command line argument.

---

**RBS722E      Alphanumeric literal is not terminated by closing single quote: '*string*'**

**Cause:** The command contains a single quote (') beginning an alphanumeric or date literal, but the end of the command was reached without encountering the single quote to terminate the literal.

**Response:** Correct the error and resubmit the command.

---

**RBL723W      Cannot use more than *number* buffers.**

**Cause:** A TMU SET TMU BUFFERS statement specified more block cache buffers than the maximum number allowed.

**Response:** The actual number of block cache buffers used is displayed in a subsequent message. Modify the SET TMU BUFFERS statement to specify a value less than or equal to this maximum value.

---

**RBL724W      Cannot reduce the number of buffers to be used.**

**Cause:** A TMU SET TMU BUFFERS statement specified a value less than the current number of block cache buffers in use. This message might occur because of an attempt to reduce the number of buffers or to set the number of buffers to a value less than the default of 128.

**Response:** The actual number of block cache buffers used is displayed in a subsequent message. Modify the SET TMU BUFFERS statement to correct this error.

---

**RBL725I      Using *number* block cache buffers.**

**Cause:** Information message indicating the number of block cache buffers currently being used by the TMU.

**Response:** None necessary.

---

**RBS726E      Number of columns must be identical in select expressions of UNION, EXCEPT, and INTERSECT queries.**

**Cause:** The select expressions in a UNION, EXCEPT, or INTERSECT query specified a different number of columns.

**Response:** Correct and resubmit the query.

---

**RBS727E      Column datatypes must be comparable in UNION, EXCEPT, and INTERSECT queries.**

**Cause:** Corresponding columns of select lists in a UNION, EXCEPT, or INTERSECT query must have datatypes that can be compared. For example, it is illegal to specify a character column in one select expression and a floating point column in the corresponding position in another select expression within the same UNION, EXCEPT, or INTERSECT query.

**Response:** Ensure that corresponding columns in each select expression in the UNION, EXCEPT, or INTERSECT query have datatypes that can be compared.

---

**RBS728E      All columns in ORDER BY must be in the select list of the first select expression.**

**Cause:** All ORDER BY columns in a UNION, EXCEPT, or INTERSECT query must be in the select list of the first select expression in the query.

**Response:** Ensure that all columns named in the ORDER BY clause are named in the first select list or are referenced by ordinal number.

---

**RBS729E      RESET BY not allowed in UNION, EXCEPT, and INTERSECT queries.**

**Cause:** A UNION, EXCEPT, or INTERSECT query contains a RESET BY specification in the ORDER BY clause. RESET BY is not supported with UNION, EXCEPT, or INTERSECT queries.

**Response:** Remove the RESET BY clause and any dependent display functions from the query.

---

**RBS730E      Constraints like <subquery> IN <constant list> are not allowed.**

**Cause:** A query was entered that contained a constraint of the form <subquery> IN <literal\_list>. These constraints are not supported.

**Response:** Rewrite the query so that such constraints are not necessary.

---

**RBS731E      FILLFACTOR value must be between 1 and 100.**

**Cause:** A CREATE INDEX or ALTER INDEX statement specified an illegal fill factor. Legal fill factors range from 1 to 100, inclusive.

**Response:** Change the fill factor to a value between 1 and 100, inclusive.

---

**RBS732E**      **A system generated foreign key constraint name cannot be used in the key specification of a STAR index.**

**Cause:** The key list for the STAR index being created contains a system-generated foreign key constraint name. Only user-defined constraint names can be used in the definition of a STAR index.

**Response:** Either remove the constraint from the index key or recreate the table with a user-defined name for the foreign-key constraint. Use this new name in the CREATE STAR INDEX statement.

---

**RBS733E**      **The column name '*column\_name*' cannot be used in the key of a STAR index because it appears in more than one foreign key.**

**Cause:** The named column does not uniquely identify a foreign key of the table. It is unclear which foreign key should be used in the STAR index key.

**Response:** Use the constraint name in the key list to identify which foreign key should be used in the index key.

---

**RBS734E**      **The column '*column\_name*' does not identify a foreign key.**

**Cause:** The user attempted to create a STAR index with a column that has not been defined as a foreign key.

**Response:** If the column is part of a multi-column foreign key, use the foreign key constraint name rather than the column name. If the foreign key constraint does not exist, you can create it with an ALTER TABLE ADD CONSTRAINT statement.

---

**RBS735E**      **The column '*column\_name*' is not a foreign key in table '*table\_name*'; only foreign key columns can be used in a STAR index.**

**Cause:** All columns in the key of a STAR index must be defined as foreign keys of the table on which the index is defined.

**Response:** Either remove the column that is not a foreign key from the specification of the index key, or recreate the table with the column defined as a foreign key.

---

**RBS736E**      **The column or foreign key constraint name '*column\_name*' cannot be specified more than once.**

**Cause:** The named column or constraint appears in the specification of the index key more than once. Each name in the index key must be unique.

**Response:** Remove all but one occurrence of the column or constraint name from the key column list.

---

**RBL737W**      **Data integrity failure, key not found for foreign key constraint '*constraint\_name*'.**

**Cause:** A key value for the named constraint was not found in the referenced table. The messages that follow indicate the values for each column in the key. The record that has no matching key in the referenced table is placed in the discard file. The LOAD operation continued.

**Response:** Check the input data or the discard file.

---

**RBL738E**      **Database identifier is not terminated by closing double quote: '*string*'.**

**Cause:** The command contains a double quote (") beginning a quoted identifier, but the end of the command was reached without encountering the double quote at the end of the identifier.



**Response:** Correct the error and resubmit the command.

---

**RBL739W**      **The *tun\_set* specification exceeds the addressability limit of the platform. The TMU will use the maximum acceptable value.**

**Cause:** The requested number of buffers exceeded the platform addressability limit. The TMU operation continued to execute, using the maximum number of buffers allowed for the platform.

**Response:** Reduce the value of the parameter specified in the message.

---

**RBL740F**      **Invalid OPTION setting in *rbw.config* file: *string*.**

**Cause:** The *rbw.config* file contained an invalid setting for an OPTION parameter. Either the option keyword is unknown, or the parameter value does not match the option keyword. The specific cause for the error is stated.

**Response:** Review and correct the *rbw.config* file.

---

**RBL741I**      **Automatic Row Generation is ON.**

**Cause:** Indicates that the Automatic Row Generation feature is enabled for the current LOAD DATA operation. The TMU will attempt to respond to referential integrity failures by automatically generating rows in referenced tables rather than by discarding input rows.

**Response:** Review automatically-generated rows upon completion of the LOAD DATA operation.

---

**RBL742I**      **Automatically-generated row inserted into table *table\_name* with primary key value *string*.**

**Cause:** Indicates that the Automatic Row Generation feature inserted a row into the indicated table in order to satisfy referential integrity. The primary key value of the inserted row is shown, and matches the foreign key value that caused the row to be inserted.

**Response:** After the LOAD operation completes, review all automatically-generated rows and issue appropriate UPDATE statements to fill out non-key values in the generated rows.

---

**RBL743W**      **Unable to insert generated row into *table\_name* because INSERT privilege is not granted.**

**Cause:** Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated table in order to satisfy referential integrity, but the database user running the TMU did not have INSERT privilege on the target table.

**Response:** The referencing row is discarded; it is written to the discard file if one was specified for the LOAD DATA operation. Check the input data or the discard file.

---

**RBL744W**      **Unable to insert generated row into table *table\_name* because column *column\_name* requires NOT NULL but default value is NULL.**

**Cause:** Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated table in order to satisfy referential integrity, but the default value for a column specified to be NOT NULL is NULL. This default of NULL could be caused by an explicit DEFAULT NULL specification for the column on the CREATE TABLE statement, or because there is no default value set for the column at all.

**Response:** The referencing row is discarded; it is written to the discard file if one was specified for the LOAD DATA operation. Check the input data or the discard file.

---

**RBS745E**      **Operations using the system segment are not allowed.**

**Cause:** The segment that contains the system files was specified in a DROP SEGMENT, ALTER SEGMENT, or ALTER TABLE command. This segment cannot be used in these operations.

**Response:** None necessary.

---

**RBS746E**      **Segment *segment\_name* cannot be dropped because it is still attached to a table or index.**

**Cause:** A segment cannot be dropped while it is attached to a table or index.

**Response:** Use the ALTER SEGMENT command to detach the segment from the table or index.

---

**RBS747E**      **MAXSIZE *size* for storage *path\_name* is outside the valid range of *min\_value* to *max\_value*.**

**Cause:** A CREATE SEGMENT command contained an invalid MAXSIZE for one of the storage specifications.

**Response:** Correct the error and resubmit the command.

---

**RBS748E**      **INITSIZE *size* for storage *path\_name* is greater than MAXSIZE *maxsize*.**

**Cause:** A CREATE SEGMENT command contained an invalid INITSIZE for one of the storage specifications. The initial size of a PSU cannot be larger than the maximum size.

**Response:** Correct the error and resubmit the command..

---

**RBS749E**      **EXTENDSIZE *size* for storage *path\_name* is greater than *max\_valid\_size*.**

**Cause:** A CREATE SEGMENT command contained an invalid EXTENDSIZE for one of the storage specifications.

**Response:** Correct the error and resubmit the command.

---

**RBL750W**      **The *tun\_set* specification is set too low. The default minimum value will be used.**

**Cause:** The requested value was set too low and was ignored. The default minimum value was

used for the TMU operation.

**Response:** Consider using a higher value for the specified parameter.

---

**RBS751E**      **EXTENDSIZE *extend\_size* is invalid with maximum size *max\_size* and initial size *init\_size*.**

**Cause:** A CREATE SEGMENT or ALTER SEGMENT ADD STORAGE command specified an extend size that is inconsistent with the other size values. This could be caused by specifying an extend size of zero when the initial size is less than the maximum size, or by specifying an extend size greater than zero when the initial size is equal to the maximum size.

**Response:** Correct the error and resubmit the command.

---

**RBS752W**      **The statement might return incorrect results because segment *segment\_name* is offline.**

**Cause:** A segment needed by the statement was offline, and the SET PARTIAL AVAILABILITY command was used to force the statement to ignore the missing data.

**Response:** Ensure that all of the segments of a table or index are online or use the SET PARTIAL AVAILABILITY command to force the statement to fail as necessary.

---

**RBS753I**      **The statement might return incorrect results because segment *segment\_name* is offline.**

**Cause:** A segment needed by the statement was offline, and the SET PARTIAL AVAILABILITY command was used to force the statement to ignore the missing data.

**Response:** Ensure that all of the segments of a table or index are online, or use the SET PARTIAL AVAILABILITY command to force the statement to fail as necessary.



---

**RBS754E**      *'key\_name' is neither a foreign key constraint nor a column in the table 'table\_name'.*

**Cause:** A name specified in the key list of a CREATE STAR INDEX statement must identify either a foreign key constraint or a column in the table.

**Response:** Remove the name from the key list specification or correct any misspelled names.

---

**RBS755E**      **DEFAULT or RANGE for  
TIMESTAMP column  
'column\_name' is not  
type-compatible.**

**Cause:** An invalid type DEFAULT or RANGE value was declared for a TIMESTAMP column.

**Response:** Ensure that the supplied value is type-compatible with the column.

---

**RBL756E**      **The FORCE option is valid only  
during RESTORE of a segment or  
a PSU.**

**Cause:** The FORCE option is used when restoring a single segment or a single PSU (partial restore). The current command did not specify any segments or PSUs when it tried to use the FORCE option.

**Response:** Correct the error and resubmit the command.

---

**RBS757E**      **Column 'column\_name' cannot be  
declared DEFAULT USER because  
it is not wide enough.**

**Cause:** DEFAULT USER was specified for a CHARACTER or VARCHAR column with a length less than 128 bytes.

**Response:** Either define the CHARACTER or VARCHAR column to be 128 bytes or greater, or choose a different DEFAULT value.

---

**RBS758E**      **DEFAULT or RANGE  
'default\_value' is too wide for  
column 'column\_name'.**

**Cause:** A string literal was supplied with the DEFAULT or RANGES clause that was wider than the target column.

**Response:** Either declare the column to be wider, or shorten the supplied string literal.

---

**RBS759E**      **DEFAULT or RANGE for numeric  
column 'column\_name' is not itself  
numeric.**

**Cause:** A non-numeric DEFAULT or RANGE value was declared for a numeric column.

**Response:** Ensure that the supplied value is type-compatible with the column.

---

**RBS760E**      **DEFAULT or RANGE for TIME  
column 'column\_name' is not  
type-compatible.**

**Cause:** An invalid type DEFAULT or RANGE value was declared for a TIME column.

**Response:** Ensure that the supplied value is type-compatible with the column.

---

**RBS761E**      **DEFAULT or RANGE for DATE  
column 'column\_name' is not  
type-compatible.**

**Cause:** An invalid type DEFAULT or RANGE value was declared for a DATE column.

**Response:** Ensure that the supplied value is type-compatible with the column.

---

**RBS762E**      **DEFAULT or RANGE for  
CHARACTER or VARCHAR  
column 'column\_name' is not  
type-compatible.**

**Cause:** A non-character DEFAULT or RANGE was declared for a CHARACTER or VARCHAR column.

**Response:** Ensure that the supplied value is type-compatible with the column.

---

**RBS763E**      **DEFAULT or RANGE for DATE, TIME, or TIMESTAMP column 'column\_name' is not type-compatible.**

**Cause:** A numeric DEFAULT or RANGE value was declared for a DATE, TIME, or TIMESTAMP column.

**Response:** Ensure that the supplied value is type-compatible with the column.

---

**RBS764E**      **ALTER TABLE ... SET/DROP DEFAULT only legal for base tables.**

**Cause:** ALTER TABLE ... SET/DROP DEFAULT was issued where the target table was a synonym, a view, a temporary table or a model table. Only base tables can be altered.

---

**RBL765E**      **Segment *segment\_name* has changed since the last backup. FORCE option is required.**

**Cause:** Restoring a single segment will cause data to be lost if that segment has been changed since the last backup. In this situation, the RESTORE operation requires the FORCE option.

**Response:** Consider carefully whether you want to use the FORCE operation. If you have questions concerning its results, contact Customer Support.

---

**RBS767E**      **Segment *segment\_name* is not attached to table *table\_name*.**

**Cause:** The segment being altered was not attached to the table specified in the OF TABLE clause of the ALTER SEGMENT statement.

**Response:** Correct the error and resubmit the command.

---

**RBS768E**      **Segment *segment\_name* is not attached to index *index\_name*.**

**Cause:** The segment being altered was not attached to the index specified in the OF INDEX clause of the ALTER SEGMENT statement.

**Response:** Correct the error and resubmit the command.

---

**RBS769E**      **Segment *segment\_name* is not attached to a table or index.**

**Cause:** The OF TABLE or OF INDEX clause was specified in an ALTER SEGMENT statement for a segment that is not attached to a table or index.

**Response:** Remove the OF TABLE or OF INDEX clause and resubmit the command.

---

**RBS770E**      **Segment *segment\_name* requires the OF TABLE or OF INDEX clause.**

**Cause:** The OF TABLE or OF INDEX clause was not specified in the ALTER SEGMENT statement for a segment attached to a table or index.

**Response:** Add the appropriate OF TABLE or OF INDEX clause and resubmit the command.

---

**RBS771E**      **ALTER SEGMENT *alter\_option* requires segment *segment\_name* to be offline.**

**Cause:** An attempt was made to alter an online segment in a way valid only for offline segments.

**Response:** Take the segment offline and resubmit the command.

---

**RBS772E**      **Insufficient authority to ALTER SEGMENT.**

**Cause:** The user who issued the ALTER SEGMENT statement did not have the required authority. To alter a segment, a user must have ALTER\_ANY authorization, be a member of the DBA system role, or own all of the objects needed by the statement and have ALTER\_OWN authorization. For example, a user that is a member of the RESOURCE system role can create a segment, but cannot attach it to a table owned by another user.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS773E**      **Segment *segment\_name* cannot have *number* physical storage units. The maximum allowed is *maximum\_allowed*.**

**Cause:** A CREATE SEGMENT or ALTER SEGMENT statement specified more physical storage units (PSUs) than the maximum number allowed for a segment.

**Response:** Correct the statement to not exceed the maximum number and resubmit it.

---

**RBL774W**      **Unable to insert generated row into table *table\_name* because the table does not have a MAXROWS PER SEGMENT value set.**

**Cause:** Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated referenced table in order to satisfy referential integrity. However, it could not complete the operation because that table does not have an explicit MAXROWS PER SEGMENT value set. The Automatic Row Generation feature requires that all referenced tables into which generated rows are to be inserted have a specified MAXROWS PER SEGMENT value. The referencing row was discarded and the load operation continued.

**Response:** Use ALTER TABLE to set a MAXROWS PER SEGMENT value for the indicated table. Check the discard file for the discarded row.

---

**RBL775W**      **Unable to insert generated row into table *table\_name* because the table's MAXROWS PER SEGMENT value would be exceeded.**

**Cause:** Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated referenced table in order to satisfy referential integrity. However, it could not complete the operation because inserting another row would exceed the referenced table's MAXROWS PER SEGMENT value. The referencing row was discarded and the LOAD operation continued.

**Response:** Use ALTER TABLE to set a MAXROWS PER SEGMENT value for the referenced table. Check the discard file for the discarded row.

---

**RBS776E**      **Row data segmentation scheme is either missing or invalid.**

**Cause:** A CREATE TABLE statement specified more than one row data segment but did not specify a valid segmentation scheme. Valid segmentation schemes are BY HASH or BY VALUES.

**Response:** Either supply only one segment name or supply a valid segmentation scheme.

---

**RBS777E**      **A segment specification with only one segment must contain the values MIN:MAX.**

**Cause:** Only one segment name was specified and it did not have MIN:MAX as the segment range.

**Response:** Correct the statement by specifying by supplying multiple segment names, removing the segment specification, or correcting the segment specification.

---

**RBS778E**      **Cannot use SEGMENT LIKE DATA in the DATA IN clause.**

**Cause:** The SEGMENT LIKE DATA segment specification was supplied in the DATA IN clause. This combination is illegal.

**Response:** Supply a different segment specification for the DATA IN clause.

---

**RBS779E**      **RANGES list must end with keyword 'MAX'.**

**Cause:** A segment range specification did not end with MAX.

**Response:** Correct the segment range specification.

---

**RBS780E**      **Segment *segment\_name* has 'MIN' or 'MAX' in the middle of RANGES list.**

**Cause:** Either MIN or MAX was supplied in the wrong location of a segment range specification.

**Response:** Correct the segment range specification.

---

**RBS781E**      **RANGES list must begin with keyword 'MIN'.**

**Cause:** A segment range specification did not begin with MIN.

**Response:** Correct the segment range specification.

---

**RBS782E**      **Values in RANGES list around segment *segment\_name* cannot contain gaps or overlaps.**

**Cause:** The "begin" value for a range value was not equal to the "end" value of the previous range.

**Response:** Correct the segment range specification.

---

**RBS783E**      **Number of RANGES must equal the number of segments.**

**Cause:** The number of ranges in a segment range specification does not equal the number of segment names supplied.

**Response:** Ensure that there are an equal number of segment names and segment ranges.

---

**RBL784W**      **The *tun\_seta* specification conflicts with *tun\_setb*. The *tun\_seti* specification will be ignored.**

**Cause:** When TMU\_MAX\_BUFFERS or a related task-buffer specification exists, the TMU\_BUFFERS specification is ignored.

**Response:** Make sure the parameters for TMU buffers are configured correctly in the rbw.config file. Make sure any overriding SET commands are also specified correctly.

---

**RBS785E**      **Cannot use SEGMENT LIKE DATA if DATA IN clause does not have SEGMENT BY VALUES.**

**Cause:** The SEGMENT LIKE DATA segment specification was supplied, but the data is not being segmented by values. This combination is illegal.

**Response:** Correct and resubmit the statement.

---

**RBS786E**      **Number of segments must be equal when SEGMENT LIKE DATA is specified.**

**Cause:** The number of segment names supplied in conjunction with SEGMENT LIKE DATA must equal the number of segment names supplied in the DATA IN clause.

**Response:** Ensure that the number of segment names specified for the index is equal to the number of segment names specified for data.

---

**RBS787E**      **Cannot use SEGMENT LIKE DATA when data is not segmented by first column of the index.**

**Cause:** The SEGMENT LIKE DATA segment specification was supplied for an index, but the column specified in the DATA IN clause is not the first column of the index.

**Response:** Either choose a different segment specification for the index or specify the first column of the index.

---

**RBS788E**      **Segmenting column *column\_name* must be the first column or foreign key constraint of the index key.**

**Cause:** If segmenting a B-TREE index, the segmenting column specified does not identify the first column of the index key. If segmenting a STAR index where the first referenced table has a multi-column primary key, the segmenting column does not name the first foreign key constraint of the index key. If segmenting a STAR index where the first referenced table has a

single column primary key, the segmenting column does not name the first column in the key nor does it name the first foreign key constraint.

**Response:** Ensure that the column specified is the first column or foreign key constraint of the index.

---

**RBS789E**      **Range values for segment *segment\_name* must be increasing.**

**Cause:** A range was supplied where the lower value for the range was not less than the upper value for the range.

**Response:** Correct the range and resubmit the statement.

---

**RBS790E**      **The number of segments named in the DATA IN clause exceeds the MAXSEGMENTS value.**

**Cause:** If all the segments named in the DATA IN clause were used for the table, the MAXSEGMENTS value would be exceeded. The number of data segments used by a table cannot exceed the MAXSEGMENTS value.

**Response:** Change the CREATE TABLE statement to make the DATA IN clause and the MAXSEGMENTS clause consistent and resubmit the statement.

---

**RBS791S**      **Used STARindex *index\_name* on table *table\_name* at query level *number*.**

**Cause:** This message identifies a STAR index selected for the designated query or subquery. A selected index is not always used to perform the query if some other access method, such as a relation scan, is later determined to be a better choice. The specified index will be the one used when a STAR index is needed.

---

**RBS792E**      **Column alias *as\_name* is already used.**

**Cause:** A select list contains multiple column aliases using the same name.

**Response:** Correct and resubmit the statement.

---

**RBS793E**      **Column alias *as\_name* cannot be used prior to its definition.**

**Cause:** A reference to a column alias was used before its definition. The column aliases are processed from left to right in the select list. This could be caused by using a column alias that has the same name as a table column. For example,

select substr(name,1,20) as name from rbw\_tables

will generate this error because the alias "NAME" is used inside of its own definition. The correct way to write this statement is to use the table name to qualify the column reference:

select substr(rbw\_tables.name,1,20) as name from rbw\_tables.

**Response:** Correct and resubmit the statement.

---

**RBS794E**      **No valid STAR index(es) on referenced table(s) are available to perform the query.**

**Cause:** No STAR index or set of STAR indexes relates all of the referenced tables in a valid manner. A STAR index or set of STAR indexes might be invalid for a query for any of the following reasons:

(1) One or more of its segments is offline and the index has not been enabled for use in this case.

(2) The STAR index or indexes do not contain a key column for each foreign key referenced in the select list or WHERE clause. This includes foreign keys that are referenced indirectly through implicit joins.

(3) If the query must use two or more STAR indexes, the STAR indexes must define their index key columns in the same order.

**Response:** For (1): Put the index segments back online. For (2) or (3): Create one or more new STAR indexes with the necessary key columns in the required order.

---

**RBS795E      Invalid dynamic parameters in  
DECODE.**

**Cause:** A PREPARE statement contained a DECODE function, and the second or third argument was a dynamic parameter.

**Response:** Alter the function so that the second parameter is not a dynamic parameter.

---

**RBS796E      Index *index\_name* is not defined  
on table *table\_name*.**

**Cause:** An index with the specified name is defined in the database, but it does not belong to the table specified.

**Response:** Correct and resubmit the statement.

---

**RBS797E      The index specified must be a  
STAR index.**

**Cause:** The index name specified in the statement is a primary key index. Only STAR indexes can be specified in this statement.

**Response:** Correct and resubmit the statement.

---

**RBL798W      Segment *segment\_name* is marked  
as damaged and will not be  
backed up.**

**Cause:** If a segment is marked as "damaged" it will not be included in a backup.

**Response:** Correct the damage to the segment and bring the segment online.

---

**RBS799F      An abnormal process abort has  
left an internal data structure in  
an inconsistent state.**

**Cause:** In rare instances, the abnormal termination of a warehouse server process can cause a memory-resident data structure shared across all warehouse server processes to be left in an inconsistent state. Such a termination can be the result of either an internal warehouse server error (in which case the client associated with that warehouse server should have received an error message prior to this condition being reported) or by explicit intervention using the

"kill" (or similar) command to terminate a warehouse server process.

**Response:** Stop the warehouse daemon and restart it. If this error was reported in the absence of a recent warehouse server process error and in the absence of explicit intervention forcing termination of a warehouse server process, notify the warehouse administrator and contact Customer Support.

---

**RBS800E      Index segment *segment\_name* is  
incomplete and cannot be brought  
online.**

**Cause:** A REORG of the named offline segment was attempted but did not complete successfully. The content of the segment is not valid, and the segment cannot be brought online.

**Response:** Reorganize the segment and try the statement.

---

**RBS811E      Segmenting a STAR index LIKE  
REFERENCED TABLE is allowed  
only if the data has the same  
number of segments as the index.**

**Cause:** A CREATE STAR INDEX statement contained a SEGMENT LIKE REFERENCED TABLE clause, but the data in the table referenced by the leading foreign key does not have the same number of segments as were specified for the index.

**Response:** Change the number of segments assigned to the index to match the number of segments in the referenced table, or use the SEGMENT BY REFERENCES OF specification to define the index segmentation.

---

**RBS813E      The column name '*column\_name*'  
identifies more than one foreign  
key in the table.**

**Cause:** The named column does not uniquely identify a foreign key of the table. It is unclear which foreign key should be changed by the ALTER TABLE ... ALTER COLUMN statement.

**Response:** Use the constraint name in the ALTER TABLE ... ALTER COLUMN statement to



identify which foreign key to change.

---

**RBS821E**      **Rows per task parameters must be between *value* and *value*.**

**Cause:** The value provided to the SET ROWS\_PER\_<tasktype>\_TASK was not in the specified range.

**Response:** Modify the command to use a value within the range specified in the error message.

---

**RBS822I**      **Foreign key *fkey\_name* (id *number*)**

**Cause:** This message is always preceded by message number 672. Refer to that message for more information. It is followed by another message 673, 676, 674, or 822.

---

**RBS823E**      **Table '*table\_name*' referenced by foreign key '*fkey\_name*' does not have a MAXROWS PER SEGMENT value.**

**Cause:** A STAR index cannot be created because the table identified in the message does not have a MAXROWS PER SEGMENT value. All tables referenced by the foreign keys in the index key must have a MAXROWS PER SEGMENT value defined. If a referenced table is a synonym then the base table of the synonym must have a MAXROWS PER SEGMENT value defined.

**Response:** Use an ALTER TABLE ... CHANGE MAXROWS PER SEGMENT statement to define a MAXROWS PER SEGMENT value for each table referenced by a foreign key in the STAR index.

---

**RBS824E**      **Idle timeout value must be between *value* and *value*.**

**Cause:** The value provided for IDLE TIMEOUT was not in the specified range.

**Response:** Modify the command to use a value within the range specified in the error message.

---

**RBL841E**      **Unable to allocate *number* bytes of shared memory.**

**Cause:** A request to allocate shared memory was refused by the operating system.

**Response:** Notify the warehouse administrator. Adjust the system environment to meet the requirements.

---

**RBL842W**      **Table *table\_name* requires re-organization due to prior error in offline load.**

**Cause:** The preceding offline LOAD operation was not able to save enough information for the SYNCH operation to complete the index-building phase. The loaded data has been preserved and the table's indexes are marked invalid.

**Response:** After the synchronization of the segment is complete, bring the segment online, and perform a REORG operation on the table to complete the offline load.

---

**RBL843E**      **Unable to undo offline load because it did not complete successfully.**

**Cause:** The preceding offline LOAD operation was not able to save enough information for a SYNCH ... UNDO LOAD operation to succeed.

**Response:** Perform a normal SYNCH operation to synchronize the offline segment with the table, bring the segment online, and perform a REORG operation on the table. Alternatively, clear the segment to remove all rows from it, bring it online, and then perform a REORG operation on the table

---

**RBL844W**      **Table *table\_name* will need to be reorganized due to out of space error during offline load.**

**Cause:** The LOAD operation into an offline segment exceeded the available disk space (either by exceeding INDEX\_TEMPSPACE MAXSPILLSIZE or by using up all available disk space in the set of INDEX\_TEMPSPACE DIRECTORIES).



**Response:** After synchronizing the segment and bringing it online, perform a REORG operation on the affected table.

---

**RBL845I      Synchronize segment discarded  
                 number rows because of duplicate  
                 keys.**

**Cause:** This message reports the number of input records that were discarded because of duplicate key values during a TMU SYNCH operation.

**Response:** Review the SYNCH discard file for rejected records.

---

**RBL846I      Optimized index building  
                 discarded number rows because of  
                 duplicate keys.**

**Cause:** This message reports the number of input records that were discarded because of duplicate key values during the merge phase of an optimized-index-building operation. Unlike other index-building modes in which the TMU issues a separate message for each input record discarded because of duplicate keys, in optimized-index-building mode, the TMU only reports the total number of duplicate records discarded during the final phase of index building. The TMU also reports a summary total of all discarded duplicate records.

**Response:** Review the TMU discard files for rejected records.

---

**RBA847F      Invalid setting in rbw.config file:  
                 string.**

**Cause:** The rbw.config file contained an invalid setting. Possible causes are that the keyword was unknown, the parameter value did not match the keyword, or extraneous data was found. The specific cause for the error is stated.

**Response:** Review and correct the rbw.config file.

---

**RBS848F      Operating system error setting or  
                 releasing lock on 'file\_name':  
                 error\_text.**

**Cause:** The operating system returned an error when Red Brick Warehouse attempted to set a lock on the global lock file.

**Response:** The indicated error might be the result of a problem with the configuration of the platform on which Red Brick Warehouse is executing. If so, correct the platform configuration problem and restart the warehouse daemon. If this does not solve the problem, contact Customer Support.

---

**RBS849F      Error processing lock file  
                 'file\_name': error\_text.**

**Cause:** The global lock file could not be accessed.

**Response:** Check the file permissions on the file and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The owner of the Red Brick Warehouse server executable file must be able to create, remove, read, and write the specified global lock file.

---

**RBL850I      Segment segment\_name is offline.**

**Cause:** A segment referenced by a TMU operation is offline.

**Response:** None necessary. The TMU operation continues as defined for operations on offline segments.

---

**RBS851E      Cannot detach the last segment  
                 segment\_name from a table or  
                 index.**

**Cause:** If a table or index has only one segment, that segment cannot be detached.

**Response:** None necessary.

---

**RBS852E      The RANGE value range\_val is not  
                 the correct data type.**

**Cause:** A segment name or a segment name followed by a row number was supplied as a

value in a RANGE clause of an ALTER SEGMENT statement. RANGE values can contain segment names only if the segment belongs to a STAR index. Tables and other indexes are segmented by actual values of the segmenting column.

**Response:** Correct and resubmit the statement.

---

**RBS853E**      **Cannot change range because minimum value of segment *segment\_name* would overlay next lower segment *segment\_name*.**

**Cause:** An attempt to change the segment range would have completely overlaid the next lower segment. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new lower boundary for B must be greater than MIN. A new lower boundary for C must be greater than 100.

**Response:** Correct the range of the segment to be changed so that it does not completely overlay its neighboring segments.

---

**RBS854E**      **Segment *segment\_name* must keep a minimum value of MIN because it is the first segment.**

**Cause:** The segment to be changed is the first segment and must keep a minimum value of MIN.

**Response:** Correct the range of the segment to keep MIN as the lower boundary.

---

**RBS855E**      **Cannot change range because maximum value of segment *segment\_name* would overlay next higher segment *segment\_name*.**

**Cause:** An attempt to change the segmentation range would have completely overlaid the next higher segment. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new high boundary for A must be less than 200. A new high boundary for B must be less than MAX.

**Response:** Correct the range of the segment to be changed so that it does not completely

overlay its neighboring segments.

---

**RBS856E**      **Segment *segment\_name* must keep a maximum value of MAX because it is the last segment.**

**Cause:** The segment to be changed is the last segment and must keep a maximum value of MAX.

**Response:** Correct the range of the segment to keep MAX as the upper boundary.

---

**RBA857W**      **Segment *segment\_name* has an inconsistent block count.  
Expected: *count* Actual: *count*.**

**Cause:** An attempt to access the segment failed because the segment block count information did not match the sizes of the segment files.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS858E**      **Attach or Move segment *segment\_name* requires a range that matches one existing boundary.**

**Cause:** The range for the segment to be attached or whose range is to be moved does not match an existing boundary. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new segment to be attached must have one boundary with a value of MIN, 100, 200, or MAX.

**Response:** Correct the range and resubmit the command.

---

**RBS859E**      **The attach or change range would require movement of data from segment *segment\_name*.**

**Cause:** The ranges of an ALTER SEGMENT command required data to move from one segment to another. Changing the range of a segment, either by attaching a segment or by using the CHANGE RANGE command, cannot move data from one segment to another.

For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. Also

assume that there is data with value 50 in segment A. Changing the range of segment A to MIN:10 is not allowed because this would move the data value 50 from segment A into segment B.

**Response:** Correct the error and resubmit the command.

---

**RBS860E**      **Segment *segment\_name* cannot be attached, detached, or have its range changed because table *table\_name* is not segmented by column values.**

**Cause:** If a table is not segmented by column values, then it is not possible to attach a new segment, detach an existing segment, or change the range of an existing segment.

**Response:** Drop the table and recreate it, specifying SEGMENT BY VALUES of a column.

---

**RBS861E**      **Segmenting column *column\_name* must be defined as NOT NULL.**

**Cause:** A CREATE TABLE statement specified a column that allows null values as a segmenting column.

**Response:** Either specify a column that is defined as NOT NULL to be the segmenting column, or change the definition of the original column to be NOT NULL.

---

**RBL862W**      **Input row *number* is out of the range for the offline segment.**

**Cause:** During a TMU LOAD operation into an offline segment, an input row was encountered that did not meet the range criteria for the offline segment. The row was discarded and the LOAD operation continued.

**Response:** Check the input data or the discard file.

---

**RBS863E**      **Segment *segment\_name* cannot be cleared because it does not contain table row data.**

**Cause:** An ALTER SEGMENT CLEAR statement specified a segment that contains index data.

**Response:** The statement is not processed.

---

**RBS864E**      **Segment *segment\_name* cannot be cleared because it is the only row data segment of a table.**

**Cause:** An ALTER SEGMENT CLEAR statement specified the row data segment of a table that has only one row data segment. The statement is not processed.

**Response:** For single-segment tables, use a DELETE FROM statement to remove all the rows in table.

---

**RBS865I**      **Segment *segment\_name* CLEAR operation complete. The segment is now empty.**

**Cause:** An ALTER SEGMENT CLEAR statement has completed successfully.

**Response:** None necessary.

---

**RBL866I**      **Offline segment *segment\_name* is unchanged and work segment *segment\_name* released.**

**Cause:** A LOAD operation into an offline segment failed before any new rows were loaded into the segment. All changes to the segment have been undone and the work segment has been marked "free."

**Response:** None necessary.

---

**RBL867I**      **Offline load mode is REPLACE; segment *segment\_name* must be cleared.**

**Cause:** A LOAD operation into an offline segment in REPLACE mode failed after the existing rows were removed from the segment. The segment contents are not in agreement with the table's indexes.

**Response:** Use an ALTER SEGMENT CLEAR command on the segment to update the table's indexes; then either repeat the LOAD operation into the segment or bring the empty segment online.

---

**RBL868I      Cleaning up after failed load into offline segment.**

**Cause:** A LOAD operation into an offline segment failed before it finished. Additional messages describe the resulting state of the offline segment.

---

**RBL869I      Segment *segment\_name* updated by offline load. Work segment *segment\_name* is in use until offline segment has been synchronized with table or cleared.**

**Cause:** A LOAD operation into an offline segment finished.

**Response:** To complete the offline LOAD operation, use the TMU SYNCH command to synchronize the segment with its table's indexes and then bring the segment online.

---

**RBL870I      Segment *segment\_name* synchronized with table *table\_name*.**

**Cause:** Synchronization of the offline segment finished.

**Response:** To make the data in the segment available, bring the segment online.

---

**RBL871W      Failed to synchronize segment *segment\_name*. No changes made.**

**Cause:** Synchronization of an offline segment failed, but the error occurred before any changes were made to the segment.

**Response:** Look for an additional message that describes the cause of the error. Correct the problem and reperform the SYNCH operation.

---

**RBL872I      Failed to synchronize segment *segment\_name*. Synchronization partially executed.**

**Cause:** Synchronization of an offline segment failed after some changes were made to the segment or to indexes of the table.

**Response:** Look for an additional message that describes the cause of the error. It is probably not possible to rerun the SYNCH operation. The segment can be returned to a synchronized, empty state using the ALTER SEGMENT CLEAR command. One recovery approach that preserves the data in the segment is to unload the data in the segment, clear the segment, and then repeat the offline load and synchronization operations on the segment, using the unloaded data.

---

**RBL873E      Cannot load into segment *segment\_name* until it has been synchronized or cleared.**

**Cause:** The offline LOAD operation specified a segment that had not been synchronized after a previous offline LOAD operation.

**Response:** To complete the previous offline LOAD operation, run the TMU SYNCH operation to synchronize the segment with its table's indexes, and then proceed with the offline LOAD operation. Alternatively, use the ALTER SEGMENT CLEAR command to clear the offline segment.

---

**RBL874E      Cannot undo an offline load in REPLACE mode. Use ALTER SEGMENT to clear the segment.**

**Cause:** A SYNCH UNDO LOAD command to undo an offline LOAD operation was specified for a LOAD operation done in REPLACE mode. The existing rows in the segment have already been deleted so the LOAD operation cannot be undone.

**Response:** If you do not want to include the loaded data in the table, use the ALTER SEGMENT command to clear the offline segment and then bring the segment online.

---

**RBS875I**      **Segment verification error: file**  
*'file\_name' (file number file\_number*  
**of segment segment\_name) does not**  
**exist.**

**Cause:** Verification of the segment failed because the indicated file could not be found.

**Response:** The segment is marked "not intact". If verification is done as part of another operation--for example, setting the segment online--that operation did not complete.

---

**RBS876I**      **Segment verification error:**  
**Operating system denied access to**  
**file 'file\_name' (file number**  
*file\_number of segment*  
*segment\_name).*

**Cause:** Verification of the segment failed because the indicated file could not be accessed.

**Response:** The segment is marked "not intact". If verification is done as part of another operation--for example, setting the segment online--that operation did not complete.

---

**RBS877I**      **Segment verification error:**  
**Operating system error**  
*(os\_error\_number) opening file*  
*'file\_name' (file number file\_number*  
**of segment segment\_name).**

**Cause:** Verification of the segment failed because the indicated file could not be opened.

**Response:** The segment is marked "not intact". If verification is done as part of another operation--for example, setting the segment online--that operation did not complete.

---

**RBS878I**      **Segment verification error: file**  
*'file\_name' (file number file\_number*  
**of segment segment\_name) is**  
**smaller than expected. Expected at**  
**least file\_size bytes.**

**Cause:** Verification of the segment failed because the indicated file was smaller than expected, based on its current use.

**Response:** The segment is marked "not intact".

If verification is done as part of another operation--for example, setting the segment online--that operation did not complete.

---

**RBS879I**      **Segment verification error:**  
**Operating system error**  
*(os\_error\_number) reading bytes*  
*starting\_byte-ending\_byte of file*  
*'file\_name' (file number file\_number*  
**of segment segment\_name).**

**Cause:** The operating system returned the reported error code when the indicated region of the file was read.

**Response:** The segment is marked "not intact". If verification is done as part of another operation--for example, setting the segment online--that operation did not complete.

---

**RBS880I**      **Segment verification error: I/O**  
**error reading bytes**  
*starting\_byte-ending\_byte of file*  
*'file\_name' (file number file\_number*  
**of segment segment\_name).**

**Cause:** The operating system reported an I/O error when the indicated region of the file was read.

**Response:** The segment is marked "not intact". If verification is done as part of another operation--for example, setting the segment online--that operation did not complete.

---

**RBS881I**      **Segment segment\_name is marked**  
**as damaged. Verifying that the**  
**damage has been repaired.**

**Cause:** ALTER SEGMENT VERIFY or ALTER SEGMENT ONLINE was requested for a segment that had been previously determined to be damaged. The integrity of the segment is checked.

**Response:** If the segment is found to be complete and accessible, it will be marked "intact". If a problem is found, another message that describes the specific error is issued.

---

**RBS882I**      **All components of segment *segment\_name* are present and intact.**

**Cause:** A physical check of the PSUs composing the segment found that all PSUs were available and that each block was readable.

**Response:** The segment is marked "intact".

---

**RBS883I**      **Verification of segment *segment\_name* could not be completed due to lack of system resources.**

**Cause:** It is possible that there was not enough memory to complete the segment check or that an operating system limitation (such as the system file table limit or process open file limit) prevented completion of the segment check.

**Response:** The segment remains offline and is not marked "intact".

---

**RBS884W**      **Verification of segment *segment\_name* failed.**

**Cause:** A physical check of the PSUs composing the segment found that one or more PSUs was still inaccessible or inconsistent.

**Response:** The segment is marked "not intact".

---

**RBL885E**      **A segment list and an index name cannot both be specified for UNLOAD of table *table\_name*.**

**Cause:** An UNLOAD statement specified both an index name to use for ordering and one or more named segments. An index name can be specified only when an entire table is unloaded. An UNLOAD operation on a segment always performs a relation scan.

**Response:** Correct the UNLOAD statement to specify either an index name or a segment list, but not both.

---

**RBL886E**      **Cannot complete operation for table *table\_name* because index *index\_name* does not exist.**

**Cause:** A TMU statement specified an index name to use for ordering or reorganization, but no index by that name exists in the current database.

**Response:** Correct the TMU statement to specify either a valid index name or no index name.

---

**RBL887E**      **Index *index\_name* is not associated with table *table\_name*.**

**Cause:** A TMU statement specified an index name to use for ordering or reorganization, but the named index is not associated with the target table.

**Response:** Correct the TMU statement to specify either an index name associated with the target table or no index name.

---

**RBL888E**      **Cannot UNLOAD table *table\_name* because one or more of its segments are offline.**

**Cause:** The UNLOAD statement as written cannot be executed because one or more of the segments attached to the target table are offline.

**Response:** Either modify the UNLOAD statement to include a SEGMENTS clause, or bring all segments of the table online and resubmit the UNLOAD statement. You can query the RBW\_SEGMENTS system table to determine the status of all segments.

---

**RBL889E**      **Cannot UNLOAD table *table\_name* using index *index\_name* because one or more index segments are offline.**

**Cause:** An UNLOAD statement cannot be completed because one or more of the segments assigned to the selected index are offline.

**Response:** Modify the UNLOAD statement either by including a SEGMENTS clause or by removing the USING INDEX clause.



Alternatively, bring all segments of the target table and indexes online and resubmit the UNLOAD statement. You can query the RBW\_SEGMENTS system table to determine the status of all segments.

---

**RBL890E      Cannot UNLOAD table *table\_name* using TARGET index *index\_name*.**

**Cause:** An UNLOAD statement cannot be completed because the operation attempted to use a TARGET index to order the output rows.

**Response:** Modify the UNLOAD statement by removing the USING INDEX clause or by specifying a non-TARGET index in that clause.

---

**RBL891E      Cannot perform partial index REORG because table *table\_name* has an invalid STAR index.**

**Cause:** A REORG statement specified a partial list of indexes to be reorganized (that is, not all indexes associated with the table were specified), but at least one STAR index on the table is marked invalid. A complete REORG of all indexes must be performed to check referential integrity and restore STAR index validity.

**Response:** Perform a REORG operation that does not list specific indexes or that lists all indexes associated with the target table.

---

**RBL892I      Recalculated segment ranges for STAR index *index\_name*.**

**Cause:** A REORG operation specified the RECALCULATE RANGES operation. This message confirms that ranges were successfully recalculated for the indicated index.

**Response:** None necessary. The system tables can be queried for more information about the currently calculated STAR index segment ranges.

---

**RBL893E      Quitting partial index REORG because of a data integrity violation. Run a complete REORG for table *table\_name*.**

**Cause:** A REORG statement specified a partial list of indexes to be reorganized (that is, not all indexes associated with the table were specified), but a data integrity violation was detected during the operation. The most common cause is a referential integrity violation. Duplicate row data can also produce this error. Partial index REORG operations cannot correct data integrity violations, so the REORG operation was terminated before it finished. The table is left in an invalid state until a full reorganization is completed.

**Response:** Perform a REORG operation that does not list specific indexes or that lists all indexes associated with the target table.

---

**RBL894W      Possible consistency error for table *table\_name*. Review and repair before continuing.**

**Cause:** A TMU operation resulted in a possible data consistency error for the identified table. Possible causes are a user action (for example, an interrupted REORG operation), a physical problem (for example, out of disk space), or a system error. All processing was immediately stopped. In most cases, one or more indexes will have been marked "invalid" for use. This error indicates possible corruption or damage to the internal data structures that represent tables and/or indexes, and DBA intervention is required before the operation can continue.

**Response:** First, attempt to correct the problem by performing a REORG operation on the identified table. A REORG operation attempts to rebuild all indexes; if it completes successfully, consistency errors are corrected and normal processing can be continued. If the REORG operation fails to complete successfully, contact Customer Support. Further correction will require the use of the CHECK TABLE and CHECK INDEX statements delivered with Red Brick Warehouse to analyze and repair your database.



---

**RBL896E**      **To RECALCULATE RANGES for table *table\_name*, a STAR index must be explicitly or implicitly referenced.**

**Cause:** A REORG statement included the RECALCULATE RANGES clause, but a STAR index was not referenced in the statement. The RECALCULATE RANGES clause is meaningful only for STAR indexes, so the REORG operation cannot be performed as requested.

**Response:** Ensure that the REORG statement references a STAR index. A STAR index can be explicitly referenced using the INDEX keyword, or it can implicitly referenced by not listing any indexes.

---

**RBL897E**      **Cannot REORG table *table\_name* because one or more of its segments are offline.**

**Cause:** A REORG operation cannot be completed because one or more of the segments assigned to the target table are offline.

**Response:** Bring all segments of the target table online and resubmit the REORG statement. You can query the RBW\_SEGMENTS system table to determine the status of all segments.

---

**RBL898E**      **Cannot REORG index *index\_name* of table *table\_name* because one or more of its segments are offline.**

**Cause:** A REORG operation cannot be completed because one or more of the segments of the indicated index are offline.

**Response:** Bring all segments of the indicated index online and resubmit the REORG statement. You can query the RBW\_SEGMENTS system table to determine the status of all segments.

---

**RBS899E**      **Prior to the last command, the TMU SYNCH operation failed to synchronize segment *segment\_name*.**

**Cause:** Prior to the last command, synchronization of an offline segment failed.

**Response:** Correct the original problem and perform the TMU SYNCH operation.

---

**RBR900E**      **The call completed successfully.**

---

**RBR901E**      **Operation canceled by call to RBKill.**

---

**RBR902E**      **API call was not valid or API not initialized.**

---

**RBR903E**      **Insufficient memory available to satisfy request.**

---

**RBR904E**      **Internal logic error. Record what you were doing and contact Customer Support.**

---

**RBR905E**      **Invalid column number.**

---

**RBR906E**      **Invalid parameter to the command.**

---

**RBR907E**      **Invalid database name.**

---

**RBR908E**      **Username not a valid user in the database.**

---

**RBR909E**      **Host not listed in rbw.config file.**

---

**RBR910E**      **Invalid session ID.**

---

**RBR911E**      **Invalid host or Red Brick Warehouse username or password.**

---

**RBR912E**      **General Red Brick Warehouse server API I/O error.**

---

**RBR913E**      **All rows have been returned for the query.**

---

**RBR914E**      **No database has been opened.**

RBR915E	No session available.
RBR916E	API has not successfully logged into Red Brick Warehouse server.
RBR917E	An error occurred while processing a query.
RBR918E	Fatal Red Brick Warehouse server error:
RBR919E	Command completed successfully.
RBR920E	Unable to open rbw.config file.
RBR921E	Protocol version mismatch with Red Brick Warehouse server.
RBR922E	Asynchronous operation is pending.
RBR923E	The format of the current query results has changed.
RBR924E	There is an RBKill command pending.
RBR925E	There was no command to be canceled with RBKill.
RBR926E	The session already has an associated open database.
RBR927E	The session still has an associated open database.
RBR928E	The command was not sent because the send would have blocked.
RBR929E	Cannot access IPC message queue.

RBR930E	Error with IPC shared memory region.
RBR931E	Cannot allocate IPC semaphores.
RBR932E	Unable to fork server process.
RBR933E	Unable to run server under given user ID.
RBR934E	Cannot run rbwsrv program; program not found or is not executable.
RBR935E	Protocol error1, corrupted structures.
RBR936E	Protocol error2, corrupted structures.
RBR937E	Protocol error3, corrupted structures.
RBR938E	Protocol error4, corrupted structures.
RBR939E	Protocol error5, corrupted structures.
RBR940E	Protocol error6, corrupted structures.
RBR941E	Protocol error7, corrupted structures.
RBR942E	Protocol error8, corrupted structures.
RBR943E	Protocol error9, corrupted structures.

RBR944E	Protocol error10, corrupted structures.
RBR945E	Protocol error11, corrupted structures.
RBR946E	Protocol error12, corrupted structures.
RBR947E	Protocol error13, corrupted structures.
RBR948E	Protocol error14, corrupted structures.
RBR949E	Protocol error15, corrupted structures.
RBR950E	Protocol error, corrupted structures.
RBR951E	Session not allocated.
RBR952E	Connection attempt timed out.
RBR953E	Cancel attempt failed.
RBR954E	Unable to locate password entry for currently executing user ID.
RBR955E	Multiple password entries were found for currently executing user ID.
RBR956E	Server process could not access memory map file.
RBR957E	Server process could not access message base file.

**RBL958F**      **Upgrade cannot proceed with this database. Internal version:***internal\_version\_code*.

**Cause:** The database being upgraded is older than the current UPGRADE command can handle.

**Response:** The database must be upgraded in steps that start with previous versions of Red Brick Warehouse. Ensure to note the value of the internal version code, and contact Customer Support.

**RBL959I**      **Starting UPGRADE of Red Brick Warehouse database** *database\_name*.

**Cause:** The UPGRADE operation started.

**Response:** None necessary.

**RBS960E**      **Attach segment** *segment\_name* **would overlay segment** *segment\_name*.

**Cause:** The range for an attached segment overlays the range of an existing attached segment. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new segment being attached cannot have a range of (MIN:100), (99:201) or any other range that would completely overlay an attached segment.

**Response:** Correct the range and resubmit the command.

**RBA961E**      **A default segment cannot be created because the default PSU** *'psu\_name'* **already exists.**

**Cause:** The creation of a default segment failed because the default PSU name was used for an existing file. Possible causes are: two databases are using the same area for default or sort segments; a database was not deleted correctly; or, that an offline LOAD operation aborted abnormally.

**Response:** Verify that another database is not using the PSU. If possible, delete the file and resubmit the command.

---

**RBS962W**     **File *file\_name* does not exist. Segment cannot be used until this file is replaced.**

**Cause:** User issued an ALTER SEGMENT ... CHANGE PATH statement and the target file did not exist. The segment was altered, but it is not usable until either the target file is restored or the segment is altered to point to a file that does exist.

---

**RBS963E**     **File *file\_name* has an invalid length for a Red Brick Warehouse database file.**

**Cause:** User issued an ALTER SEGMENT ... CHANGE PATH statement and the target file exists, but its size is not a multiple of 8K.

**Response:** Verify that the file is a warehouse database file. Warehouse files must be a multiple of 8K in length.

---

**RBS964E**     ***file\_name* is a directory and cannot be used for a segment.**

**Cause:** User issued an ALTER SEGMENT ... CHANGE PATH statement and the target file is a directory.

---

**RBS965E**     ***file\_name* cannot be used as a Red Brick Warehouse file.**

**Cause:** User issued an ALTER SEGMENT ... CHANGE PATH statement and the target file is not a regular file or a link. The target file might be a socket.

---

**RBS966I**     ***file\_name* is a link.**

**Cause:** User issued an ALTER SEGMENT ... CHANGE PATH statement and the target file is a link.

**Response:** If the target file was not intended to be a link, correct the target file name and resubmit the command.

---

**RBL967F**     **File size resource limit is not set to maximum.**

**Cause:** The UNIX file size resource limit was not set to the maximum allowed value. This smaller limit can cause a load to fail with an out-of-space error even though there is physical space available.

**Response:** Contact the UNIX system administrator to increase the filesize resource limit for the user ID running the TMU.

---

**RBS968E**     **Segment *segment\_name* cannot be used because it is owned by another user.**

**Cause:** An ALTER TABLE, CREATE TABLE, or CREATE INDEX statement specified a segment that did not belong to the current user, and the current user did not have CREATE\_ANY authority or was not a member of the DBA system role.

**Response:** Specify a segment that was created by the current user, or notify the warehouse administrator and request the required authority.

---

**RBA969E**     **Cannot complete operation because the filesystem holding one or more INDEX\_TEMPSPACE directories is full.**

**Cause:** An operation that uses optimized index building (for example, LOAD DATA, REORG, CREATE INDEX) failed because the system ran out of disk space in the filesystem holding one or more INDEX\_TEMPSPACE directories. All indexes on the associated table are marked "invalid".

**Response:** To recover from this error, you must consider two issues. Indexes are marked "invalid", so you must perform a full REORG operation on the affected table.

In addition, if the failure occurred during a LOAD DATA operation that included records with duplicate values for UNIQUE indexes, there might be incorrect records remaining in the table's row data. To recover from this second problem, you must perform a REORG operation

with OPTIMIZE OFF to discard records with duplicate keys. You might also need to perform the REORG operation with OPTIMIZE OFF if you are unable to provide sufficient disk space to complete an optimized REORG operation.

Resolve the out-of-disk condition by removing files from the affected filesystem, or by choosing directories on a different filesystem for your INDEX\_TEMPSPACE DIRECTORIES parameter.

To prevent this problem, be sure that the value set for INDEX\_TEMPSPACE MAXSPILLSIZE, multiplied by the number of indexes being maintained concurrently, is less than the amount of free space on the filesystems containing the INDEX\_TEMPSPACE directories.

---

**RBL970E**      **Segment *segment\_name* cannot be used as a work segment because it is already in use.**

**Cause:** An offline LOAD operation specified a work segment that is already in use. The work segment must be an unattached segment.

**Response:** Change the command to use an unattached segment.

---

**RBL971E**      **Cannot complete REORG because table *table\_name* contains records with duplicate keys. Re-run REORG with OPTIMIZE OFF.**

**Cause:** A REORG operation with OPTIMIZE ON encountered illegal rows in a table that has duplicate values for the table's primary key and/or another UNIQUE index. The REORG operation with OPTIMIZE ON is unable to eliminate these rows, and so it cannot be completed.

**Response:** Reperform the REORG operation with OPTIMIZE OFF, to identify and eliminate rows with duplicate key values.

---

**RBL972W**      ***number* rows contained duplicate keys and were deleted.**

**Cause:** A REORG operation encountered the indicated number of rows in the table, which had duplicate values for the table's primary key

and/or another UNIQUE index. These rows are illegal, and they were deleted from the table.

**Response:** If possible, duplicate rows are written to a temporary file (/tmp) in UNLOAD (internal) format. The name of the temporary file is indicated in a previous message.

---

**RBA973E**      **Table *table\_name* has STAR index segments with range values greater than the MAXROWS PER SEGMENT value of referenced table *table\_name*.**

**Cause:** A previous command altered the MAXROWS PER SEGMENT value on a referenced table to be less than a range value used to segment a STAR index.

**Response:** Perform a REORG operation on the indexes that reference the table with the changed MAXROWS PER SEGMENT value. Use the RECALCULATE RANGES option.

---

**RBS974E**      **Name *role\_name* already in use for a role or user.**

**Cause:** A CREATE ROLE or GRANT CONNECT statement specified a role or user name that is already in use.

**Response:** Use a different name for the role or the user and resubmit the statement.

---

**RBS975E**      **The role *name* does not exist in the database.**

**Cause:** The specified role name was not found in the database.

**Response:** Correct and resubmit the statement.

---

**RBS976E**      **Granting more roles to user *user\_name* would exceed direct affiliation limit of *number* roles.**

**Cause:** A user reached the maximum number of roles allowed for direct affiliation.

**Response:** Create a hierarchy of roles and then grant the role to the user through an indirect affiliation.

---

**RBS977E**      **Cannot grant more than *number of roles* to a user.**

**Cause:** A GRANT statement contains more roles than any user is allowed.

**Response:** Create a hierarchy of roles and then grant the role to the user through an indirect affiliation.

---

**RBS978E**      **GRANT role *role\_name* to *role\_name* would create an affiliation cycle.**

**Cause:** An attempt was made to grant a role to a second role that already is affiliated with the first role. For example, grant role1 to role2 will affiliate role2 with role1. If a later statement grants role2 to role1, it will return this message. This type of cyclic definition is detected and disallowed, even through a series of indirect affiliations.

**Response:** Correct and resubmit the statement.

---

**RBS979E**      **A role cannot have a password.**

**Cause:** A GRANT CONNECT command was used to change the password of an existing user, but it specified a role name instead of a user name.

**Response:** Correct and resubmit the statement.

---

**RBS980E**      **A role cannot be named the same as a task authority.**

**Cause:** The names used for task authorities cannot be used as names for roles.

**Response:** Correct and resubmit the statement.

---

**RBL985E**      **Insufficient authority to perform SYNCH operation.**

**Cause:** A TMU SYNCH command was issued to synchronize a segment with a table, but the user running the TMU does not have sufficient object privileges to perform the operation. As a result, the segment was not synchronized. The TMU user must have OFFLINE\_LOAD authority, be a

member of the DBA system role, or be the owner of the table.

**Response:** Review table ownership and authorities and run the TMU with an appropriate database user name.

---

**RBS986E**      **A password is not allowed when granting task authorities, object privileges, or roles.**

**Cause:** A GRANT statement included the WITH password clause for a role other than the predefined CONNECT system role. A password can be specified only when the CONNECT system role is granted.

**Response:** Correct the error and resubmit the command.

---

**RBS987E**      **The WITH PASSWORD clause is required for GRANT CONNECT.**

**Cause:** A GRANT CONNECT statement did not specify a password for the user.

**Response:** Include a password and resubmit the command.

---

**RBS988E**      **GRANT CONNECT can operate on only one user at a time.**

**Cause:** A GRANT CONNECT statement was specified for more than one user. In order to prevent password duplication, a GRANT CONNECT statement can specify only one user,

**Response:** Use a separate GRANT CONNECT statement for each user.

---

**RBS989E**      **Privileges, authorities, or roles cannot be self-revoked.**

**Cause:** A REVOKE statement included the current user in the user list. Users cannot revoke their own privileges, authorities, or roles. However, users can grant authorities to themselves if they have the required authority.

**Response:** Notify the warehouse administrator and request the necessary REVOKE operation.



---

**RBA990E**      **New password for user *user\_name* is too short. It must contain at least *pwd\_minimum\_len* characters.**

**Cause:** The password specified for the user does not contain enough characters to meet the minimum length specified in the `rbw.config` file.

**Response:** Specify a password that contains at least the number of characters specified in the `PASSWORD MINIMUM_LENGTH` parameter in the `rbw.config` file.

---

**RBA991E**      **New password for user *user\_name* is not unique within the past *pwd\_previous* passwords for this user account.**

**Cause:** The new password specified for the user matches a password that has been used on this account within the number of previous passwords specified in the `PASSWORD RESTRICT_PREVIOUS` parameter in the `rbw.config` file. The password may not be an exact match, but sufficiently close, if `PASSWORD COMPLEX_NUMERIC` parameter is specified in `rbw.config` file.

**Response:** Specify a password for the user account that does not match or is sufficiently different from one of the previously used passwords.

---

**RBA992E**      **New password for user *user\_name* does not meet the complexity requirements. It must contain at least *num\_letters* letters, *num\_numbers* digits, and *num\_punct* punctuation characters.**

**Cause:** The new password specified for the user does not contain the required number of characters for one or more of the character classes specified in the `rbw.config` file for complex passwords. There are three character classes that can be specified: letters, digits, and punctuation characters. The three associated parameters are: `PASSWORD COMPLEX_NUM_LETTERS`, `PASSWORD COMPLEX_NUM_NUMERICS`, and `PASSWORD COMPLEX_NUM_PUNCTUATION`.

**Response:** Specify a password for the user account that contains at least the number of characters specified by the parameters for each character class.

---

**RBA993E**      **The password for user *user\_name* cannot be changed this frequently. A period of *num\_days* day(s) must pass between password changes.**

**Cause:** The user password cannot be changed more frequently than specified in the `rbw.config` file parameter `PASSWORD CHANGE_MINIMUM_DAYS`.

**Response:** Change the password after the specified period of time has passed.

---

**RBA994W**      **Your password will expire in *num\_days* day(s).**

**Cause:** The password for this account will expire in the number of days specified in the message. The date of expiration is the date of the last password change for this account, plus the number of days specified in the `PASSWORD EXPIRATION_DAYS` parameter in the `rbw.config` file.

**Response:** Change the password within the number of days specified in the message.

---

**RBS995E**      **The datatypes of CASE expression THEN clauses, COALESCE expressions, or IFNULL expressions must be comparable.**

**Cause:** All datatypes used within CASE expression THEN clauses, within COALESCE expressions, or within IFNULL expressions did not have comparable datatypes. For example, it is illegal to have one CASE expression THEN clause return a character value and another THEN clause return a floating point value. Because there is no implicit conversion between these two datatypes, the two expressions cannot be compared.

**Response:** Ensure that all THEN clause expressions within a CASE expression, all COALESCE expressions, or all IFNULL



expressions have datatypes that can be compared.

---

**RBS996E**      **CASE expressions must contain at least one non-NULL THEN or ELSE clause.**

**Cause:** At least one THEN clause or the ELSE clause specified for a CASE expression must contain a value other than NULL.

**Response:** Rewrite the CASE expression so that at least one of the THEN or ELSE clauses contains a value other than NULL.

---

**RBS997E**      **Simple form CASE expression WHEN clause expression datatypes must be comparable with the CASE operand.**

**Cause:** The WHEN clauses in a simple form CASE expression must contain expressions with datatypes that can be compared with the datatype of the initial CASE operand. For example, it is illegal to have a WHEN clause expression refer to a character value and the initial CASE operand refer to a floating point value; because there is no implicit conversion between these two datatypes the two expressions cannot be compared.

**Response:** Rewrite the CASE expression so that all WHEN clause expressions have datatypes that can be compared to the datatype of the initial CASE operand.

---

**RBS998E**      **Display functions are not allowed in a CASE, COALESCE, IFNULL, or NULLIF expression.**

**Cause:** A display function was included within a CASE, COALESCE, IFNULL, or NULLIF expression.

**Response:** Rewrite the CASE, COALESCE, IFNULL, or NULLIF expression so that it contains no reference to display functions.

---

**RBS999E**      **The ABS function is unable to calculate the absolute value of the smallest possible integer value (-2147483648) as an integer because the absolute value is too large to fit in the integer datatype.**

**Cause:** The ABS function was unable to calculate the absolute value of the smallest possible integer value (-2147483648) because the absolute value is too large to fit in the integer datatype.

**Response:** The absolute value of the smallest possible integer value (-2147483648) can be returned in a floating point representation.

---

**RBL1001F**      **Log daemon must be run as the superuser or as the redbrick user.**

**Cause:** The log daemon was started from a user ID other than the superuser user ID or the redbrick user ID.

**Response:** Run the log daemon as the superuser (root) or as the redbrick user.

---

**RBL1002F**      **Environment variable *environment\_variable* must be set to run log daemon.**

**Cause:** The standard Red Brick Warehouse environment variable RB\_CONFIG must be set in order to run the log daemon. This variable must provide a full pathname to the directory containing the Red Brick Warehouse configuration file, rbw.config.

**Response:** Set the RB\_CONFIG environment variable and then start the log daemon.

---

**RBL1003F**      **Environment variable *environment\_variable* must reference a full pathname.**

**Cause:** The value of the RB\_CONFIG environment variable did not begin with the character "/" and is therefore not a full pathname.

**Response:** Set the RB\_CONFIG environment variable to contain the full path name to the

directory containing the Red Brick Warehouse configuration file, `rbw.config`.

---

**RBL1004F**     **Directory specified by**  
*\$environment\_variable directory\_name*  
**does not exist.**

**Cause:** The directory referenced by the value in the `RB_CONFIG` environment variable does not exist.

**Response:** Set the `RB_CONFIG` environment variable to contain the full path name to the directory containing the Red Brick Warehouse configuration file, `rbw.config`.

---

**RBL1005F**     **Too many arguments on command line.**

**Cause:** The log daemon takes at most one argument--the server name--on its command line. More than one argument was specified.

**Response:** Specify zero or one arguments on the command line.

---

**RBL1006F**     **Unable to create lock file: (errno)**  
*reason*

**Cause:** The log daemon was unable to create its required lock file. The operating-system error code and reason are indicated.

**Response:** Review the operating-system error and take appropriate corrective action.

---

**RBL1007F**     **A log daemon is already running**  
**for *server\_name* (pid *pid*).**

**Cause:** A log daemon is already running for the indicated Red Brick Warehouse server. The PID of the currently running server is shown.

**Response:** Either stop the currently running log daemon and resubmit this command, or ignore this error and allow the currently running daemon to continue.

---

**RBL1008W**     **Logging is disabled because**  
**directory '*directory\_name*' not**  
**found or cannot be written.**

**Cause:** The log daemon has disabled logging operations because it is unable to create and write a file to the configured logging directory.

**Response:** Review the logging directory configuration, and select a valid directory that can be written by the log daemon.

---

**RBL1009W**     **Accounting is disabled because**  
**directory '*directory\_name*' not**  
**found or cannot be written.**

**Cause:** The log daemon has disabled accounting operations because it is unable to create and write a file to the configured accounting directory.

**Response:** Review the accounting directory configuration, and select a valid directory that can be written by the log daemon.

---

**RBL1010F**     **Invalid ADMIN setting in**  
*config\_file\_name* **file: *string*.**

**Cause:** The `rbw.config` file contained an invalid setting for an ADMIN parameter. Either the keyword following ADMIN is unknown, or the parameter value is not valid for that keyword. The specific cause for the error is stated.

**Response:** Review and correct the ADMIN entry in the `rbw.config` file.

---

**RBL1011W**     **Ran out of discard file space**  
**while writing the discarded rows**  
**to file *file\_name*. Stopped writing**  
**the discarded rows.**

**Cause:** The filesystem ran out of space while writing to the discard file. The LOAD operation continued, but the discarded rows were not appended to the discard file.

**Response:** If the filesystem is full, either increase disk space or delete unnecessary files.

---

**RBL1012F**    *parameter configuration value must be at least value (value was specified).*

**Cause:** An ADMIN MAXSIZE configuration parameter specified a value that is too small. The smallest legal value is indicated in the message.

**Response:** Correct the ADMIN MAXSIZE entry in the rbw.config file to specify a value equal to or greater than the smallest legal value.

---

**RBL1013F**    **ADMIN parameter too large; maximum is valueunit (valueunit was specified).**

**Cause:** An ADMIN MAXSIZE configuration parameter specified a value that is too large. The largest legal value is indicated in the message.

**Response:** Correct the ADMIN MAXSIZE entry in the rbw.config file to specify a value less than or equal to the largest legal value.

---

**RBL1014F**    **Units specified for ADMIN parameter must be "K" or "M".**

**Cause:** An ADMIN MAXSIZE configuration parameter contained a unit designator (for kilobytes or megabytes), but the designator specified was invalid.

**Response:** Correct the ADMIN MAXSIZE entry in the rbw.config file to specify either a valid unit designator ("K" or "M") or no unit designator.

---

**RBL1015I**    **Log Daemon Process:***process\_id environment\_variable; 'connection\_name'.*

**Cause:** The log daemon started successfully.

**Response:** None necessary.

---

**RBS1016F**    **Loop detected in system table structure structure\_type at filename:line\_number.**

**Cause:** Database system tables might be damaged.

**Response:** Contact Customer Support with the

exact text of this message and a description of the operation in progress.

---

**RBS1017F**    **System table structure on deleted list but not marked deleted. Type of structure is structure\_type. Error detected at filename:line\_number.**

**Cause:** Database system tables might be damaged.

**Response:** Contact Customer Support with the exact text of this message and a description of the operation in progress.

---

**RBS1018F**    **System table structure found in use but marked deleted. Type of structure is structure\_type. Error detected at filename:line\_number.**

**Cause:** Database system tables might be damaged.

**Response:** Contact Customer Support with the exact text of this message and a description of the operation in progress.

---

**RBS1019F**    **Unexpected error extending system table file 'file\_name'. Internal error number error\_number.**

**Cause:** Filesystem holding the database catalog might be full.

**Response:** Contact Customer Support with the exact text of this message and a description of the operation in progress.

---

**RBS1020F**    **Unexpected error updating system table file 'file\_name'. Internal error number error\_number.**

**Cause:** Filesystem holding the database catalog might be failing.

**Response:** Contact Customer Support with the exact text of this message and a description of the operation in progress.

---

**RBL1021W** Upgrade cannot be performed: An incomplete alter table operation is pending for table *table\_name*.

**Cause:** An ALTER TABLE operation on the specified table terminated before it completed. The ALTER TABLE operation must be resolved before the database can be upgraded.

**Response:** Resolve the partially completed ALTER TABLE operation by completing it with either the RESUME or RESET options or by dropping the table. Then reperform the UPGRADE operation.

---

**RBL1022W** Upgrade cannot be performed: An incomplete offline load is pending for segment *segment\_name* of table *table\_name*.

**Cause:** The specified row-data segment is out of synchronization with its table because an offline LOAD operation has not yet been synchronized. The offline LOAD operation must be completed before the database can be upgraded.

**Response:** Complete the offline LOAD operation and then reperform the UPGRADE operation. The offline load can be completed by performing a TMU SYNCH operation, by clearing the segment with ALTER SEGMENT ... CLEAR, by detaching the segment, or by dropping the table.

---

**RBL1023E** Upgrade of database *database\_name* not performed.

**Cause:** Conditions in the database prevented the UPGRADE operation from starting. Possible causes are uncompleted ALTER TABLE or offline LOAD operations. The specific conditions were described in preceding messages.

**Response:** The database is left unchanged. For help in resolving the pending operations, see the response descriptions for the preceding messages.

---

---

**RBA1024S** Optimized TARGET index building inserted *count* rows into index *index\_name*. *used\_bytes* bytes of threshold *count* bytes used. *count* rows (in *count* batches) flushed early due to memory limitation.

**Cause:** This message contains statistical information about the optimized creation or modification of TARGET indexes.

**Response:** None needed.

---

**RBA1025S** Hash table size is *count* with *count* distinct entries and *count* collisions.

**Cause:** This message contains statistical information about optimized creation or modification of TARGET indexes.

**Response:** None necessary.

---

**RBA1026W** Block Cache usage: total pages - *pages* global list pages - *pages*

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

**RBA1027W** spno nfiles type owner seg r/w pol locked owned highwater optsize local

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

**RBA1028W** *debugging information*

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

**RBA1029W** *count* active block cache spaces.

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

---

**RBA1030W active virtual tables:**

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

**RBA1031W vtn bc\_hndl active\_rows  
pinned\_rows totblks pinblks  
delblks back opt iter**

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

**RBA1032W count virtual tables found.**

**Cause:** This message contains internal processing state information and appears in some cases before error message 132 is printed.

---

**RBS1033E Query tempspace maxspillspace  
limit (countK) exceeded.**

**Cause:** The processing of the SQL statement terminated because temporary disk space used by the statement exceeded the limit set by the QUERY TEMPSPACE MAXSPILLSIZE parameter.

**Response:** Increase the value of the MAXSPILLSIZE parameter or rewrite the SQL statement with tighter constraints.

---

**RBS1034E Temporary query space exhausted.**

**Cause:** The processing of the SQL statement terminated because temporary query space was exhausted; either the file system(s) containing the temporary query files was full or the "redbrick" user's quota on that file system(s) was exceeded. The space might have been consumed by the query that was terminated, by queries from other sessions, or by a combination of the two.

**Response:** To resolve this problem, try one or more of the following suggestions:

(1) Run the query when fewer users are running large queries concurrently on your Red Brick Warehouse.

(2) Use the QUERY\_TEMPSPACE\_DIRECTORY parameters to specify that alternative or

additional directories on file systems with additional disk space be used for the query and/or other queries being run concurrently.

(3) Ensure that there are no temporary query files from prior invocations of Red Brick Warehouse in the temporary query directories. You can specify an appropriate cleanup script in the rbw.config file to be run each time the warehouse daemon starts.

(4) Expand the available disk space by removing unnecessary files from the file system(s) containing the directories specified for temporary query space.

(5) Ensure that disk quotas for the "redbrick" user on the file system(s) containing the directories specified for temporary query space are not too restrictive.

---

**RBA1035E Current PSU size exceeds  
MAXSIZE for PSU *file\_name* of  
segment *file\_name*.**

**Cause:** The current file size of the indicated PSU is greater than the MAXSIZE defined for it.

**Response:** Check for possible file corruption of the database files. This error might result if a file is incorrectly copied into the indicated PSU. Contact Customer Support.

---

**RBA1036E Segment open error: *segment\_name*  
header contains incorrect type.**

**Cause:** The header of the indicated segment did not contain the expected type when it was opened. This error might be caused by improper copying of segments and PSUs; for example, if a PSU from a table is copied over an index PSU.

**Response:** Check for possible file corruption of the database files. Contact Customer Support.

---

**RBA1037E Operation terminated due to  
index segment errors.**

**Cause:** The preceding warning messages indicate that this operation cannot continue.

**Response:** One or more segment warning messages indicate what the problem is. Refer to

the cause and response for these messages before reattempting the operation.

---

**RBA1038I    Testing segment structure of index *segment\_name*.**

**Cause:** An operation that will rebuild an index is running. This message indicates that the segment and PSU structures of the indicated index are being validated before permanent changes to the index are made. If errors are detected that prevent rebuilding the index, an error message describing the exact nature of the problem is issued and the index segments are not modified.

---

**RBS1039E    Function '*function\_name*' was called with an invalid argument value *number*.**

**Cause:** The value of the specified argument of the specified function is invalid. If the function is SQRT, valid argument values are zero and positive numeric values. If the function is LN, valid argument values are positive numeric values. **RESPONSE** You can either use the ARITHIGNORE/ARITHABORT SET commands or rbw.config-file options to control the behavior when SQRT or LN processes an invalid value, or you can rewrite the query to include only valid values for the function (zero and positive numeric values for SQRT; positive numeric values for LN).

---

**RBL1040E    Temporary index space exhausted.**

**Cause:** The processing of the TMU statement terminated because temporary index space was exhausted. Either the file system(s) containing the temporary index files was full or the "redbrick" user's quota on that file system(s) was exceeded.

**Response:** Try one or more of the following:

- (1) Use the INDEX\_TEMPSPACE\_DIRECTORIES parameters to specify that alternative or additional directories on file systems with additional disk space be used by the TMU.
- (2) Ensure that there are no temporary index files

from prior invocations of Red Brick Warehouse in the temporary index directories. You can specify an appropriate cleanup script in the rbw.config file to be run each time the warehouse daemon starts.

(3) Expand the available disk space by removing unnecessary files from the file system(s) containing the directories specified for temporary index space.

(4) Ensure that disk quotas for the "redbrick" user on the file system(s) containing the directories specified for temporary index space are not too restrictive.

---

**RBS1041E    Check operation is aborted because directory '*directory\_name*' not found or cannot be written.**

**Cause:** The check operation stopped because it was unable to create or write a file in the given directory.

**Response:** Re-issue the check command with a valid directory that can be written by the server (rbwsvr).

---

**RBS1042E    Check report file '*directory\_name*' could not be opened.**

**Cause:** The check operation was aborted because it was unable to create or open the report file in the given directory.

---

**RBA1043E    New password for user *user\_name* must not contain the login name.**

**Cause:** The password specified for the user contains the login name of the user. This is not allowed by the password security policy.

**Response:** Specify a password that does not contain the login name.

---

**RBA1044W    The password for user *user\_name* must be changed during this session. Otherwise the account will be disabled.**

**Cause:** The password security policy specifies that the initial password for the user must be



changed on the next logon. The warning reminds the user to change the password. Otherwise the account is disabled.

**Response:** The password must be changed for the current user during the current session using the GRANT CONNECT command for the same user. The account is disabled until then. If the password is not changed and the account is disabled, the DBA can issue another password to the user.

---

**RBL1098F     Daemon unable to initialize IPC (error).**

**Cause:** A service daemon was unable to initialize its Inter-Process Communication (IPC) services. The error reason code is indicated.

**Response:** Contact Customer Support.

---

**RBA1099F     Unable to fork daemon process: (errno) reason.**

**Cause:** A service daemon was unable to initialize itself by forking a child process. The operating-system error code and reason are indicated.

**Response:** Review the operating-system error and take appropriate corrective action.

---

**RBS1100E     Insufficient authority to perform ALTER SYSTEM operation.**

**Cause:** The user who issued the ALTER SYSTEM command did not have the required authority. To perform an ALTER SYSTEM operation, a user must be a member of the DBA system role or have the ALTER\_SYSTEM task authority.

**Response:** Verify that the user has the correct authority to issue the ALTER SYSTEM command.

---

**RBS1101E     Insufficient authority to query the dynamic statistic tables.**

**Cause:** The user who issued the select statement against a dynamic statistic table did not have the required authority. To select from a dynamic statistic table, a user must be a member of the

DBA system role, have the ACCESS\_SYSINFO authority, or have the ALTER\_SYSTEM task authority.

**Response:** Verify that the user has the correct authority to select from the dynamic statistic tables.

---

**RBS1102W     The alter system command produced the following message.  
message**

**Cause:** See the indicated message for the Cause information.

**Response:** See the indicated message for the Response information.

---

**RBS1103E     The specified database name dbname was not found.**

**Cause:** The ALTER SYSTEM or ALTER DATABASE command specified a database name that was not recognized by the administration daemon, which has knowledge only of databases that have had some activity since the daemon started.

**Response:** Select the DBNAME column from any Dynamic Statistic Table to ensure that a valid database name is specified.

---

**RBS1104W     Database dbname is already quiesced.**

**Cause:** An ALTER SYSTEM QUIESCE statement was issued for a database that is already in the quiesced state.

**Response:** None necessary.

---

**RBS1105W     Database dbname is not quiesced.**

**Cause:** An ALTER SYSTEM RESUME command was issued for a database that was not in the quiesced state.

**Response:** None necessary.



---

**RBS1106E**     **Database *dbname* is an administration database and cannot be quiesced or resumed.**

**Cause:** An ALTER SYSTEM QUIESCE command was issued for an administration database.

**Response:** Correct the command to specify a non-administration database.

---

**RBA1107E**     **Database is quiesced. The only valid action is to quit the session or for an authorized user to issue ALTER SYSTEM RESUME.**

**Cause:** The current database was quiesced after the current session started. A quiesced database allows running commands to finish, but no new commands or sessions are accepted. The only exception is that an authorized user can issue an ALTER SYSTEM RESUME command.

**Response:** From an authorized session or from the administration database, you can either issue an ALTER SYSTEM RESUME command or close the current session.

---

**RBA1108F**     **Database is quiesced. No new connections are allowed.**

**Cause:** The current database is in the quiesced state. A quiesced database will not accept new connections.

**Response:** From an administration database, issue an ALTER SYSTEM RESUME command to allow new connections.

---

**RBA1109F**     **RB\_HOST environment variable not set and no alternate value was specified.**

**Cause:** The administration daemon requires that the RB\_HOST environment variable be set or that an appropriate value be passed to the daemon as the first parameter when the daemon is started.

**Response:** Either set the RB\_HOST environment variable to the appropriate value or start the administration daemon with the appropriate value as its first parameter.

---

**RBS1110E**     **User *user\_name* has not connected to database *dbname*.**

**Cause:** An ALTER SYSTEM command specified a user name of a user who has not yet connected to a database. The administration daemon has knowledge only of databases and users that have had some activity since the daemon started.

**Response:** Specify a user that has connected to a database.

---

**RBS1111E**     **Process *process\_id* was not found for user *user\_name* on database *dbname*.**

**Cause:** An ALTER SYSTEM statement specified a process that was not found for the specified user and database.

**Response:** Rewrite the statement to include a valid process ID for the specified user and database.

---

**RBS1112E**     **CREATE TABLE not allowed in an administration database.**

**Cause:** The administration database is used for ALTER SYSTEM commands that can affect any known database and for dynamic static table queries that show information for all known databases. The administration database does not allow commands that use disk space for arbitrary objects.

**Response:** Create the table in a non-administration database.

---

**RBS1113E**     **CREATE SEGMENT not allowed in an administration database.**

**Cause:** The administration database is used for ALTER SYSTEM commands that can affect any known database and for Dynamic Statistic Table queries that show information for all known databases. The administration database does not allow commands that use disk space for arbitrary objects.

**Response:** Create the segment in a non-administration database.

<hr/> <b>RBS1114E</b> <b>Command cannot run because there is no administration daemon currently active.</b>  <b>Cause:</b> An ALTER SYSTEM command or dynamic statistic table query was issued, but there is no active administration daemon to process the command.  <b>Response:</b> Start an administration daemon, start another session, and resubmit the command.	<p>session that was started before the current administration daemon. The administration daemon does not have the session's start up information and is unable to perform the requested service.</p> <p><b>Response:</b> Start another session and resubmit the command.</p>
<hr/> <b>RBS1115E</b> <b>Insufficient authority to ALTER USER <i>user_name</i>.</b>  <b>Cause:</b> The user who issued the ALTER USER statement did not have the required authority. To use the ALTER USER command, a user must have USER_MANAGEMENT authorization, or be a member of the DBA system role.  <b>Response:</b> Verify that the user has the necessary authorization to issue the ALTER USER command.	<hr/> <b>RBA1119F</b> <b>Environment variable RB_CONFIG must be set to run Administration Daemon.</b>  <b>Cause:</b> The standard Red Brick Warehouse environment variable RB_CONFIG must be set in order to run the administration daemon (rbwadmd). RB_CONFIG must be a full pathname to the directory that contains the rbw.config file.  <b>Response:</b> Set the RB_CONFIG environment variable and then start the administration daemon.
<hr/> <b>RBS1116E</b> <b>Invalid priority value <i>number</i>. Value must be in the range 0 to 100.</b>  <b>Cause:</b> An ALTER USER SET PRIORITY statement had an invalid priority value. Values must be positive integers in the range 0 to 100.  <b>Response:</b> Correct the priority value and resubmit the command.	<hr/> <b>RBA1120F</b> <b>Environment variable RB_CONFIG must reference a full pathname.</b>  <b>Cause:</b> The value of the RB_CONFIG environment variable did not begin with the character "/" and is therefore not a full pathname.  <b>Response:</b> Set the RB_CONFIG environment variable to contain the full pathname to the directory containing the rbw.config file.
<hr/> <b>RBS1117E</b> <b>User <i>user_name</i> named in ALTER USER does not exist.</b>  <b>Cause:</b> An ALTER USER statement specified a user that does not exist in the database. Note that a role name cannot be specified as a user name in an ALTER USER command.  <b>Response:</b> Correct the error and resubmit the command.	<hr/> <b>RBA1121F</b> <b>Directory specified by \$RB_CONFIG does not exist.</b>  <b>Cause:</b> The RB_CONFIG environment variable referenced a directory that does not exist.  <b>Response:</b> Set the RB_CONFIG environment variable to contain the full pathname to the directory containing the rbw.config file.
<hr/> <b>RBA1118E</b> <b>Server sessions started prior to administration daemon.</b>  <b>Cause:</b> An ALTER SYSTEM command or Dynamic Statistic Table query was issued from a	<hr/> <b>RBA1122F</b> <b>Too many arguments on command line.</b>  <b>Cause:</b> The administration daemon takes at most a single argument--the server name--on its

command line. More than one argument was specified.

**Response:** Specify zero or one arguments on the command line.

---

**RBA1123F    Administration daemon must be run as the superuser or as the redbrick user.**

**Cause:** The administration daemon was started from a user ID other than the superuser (root) user ID or the redbrick user ID.

**Response:** Run the administration daemon as the superuser or as the redbrick user.

---

**RBA1124F    Unable to create lock file: (errno) reason.**

**Cause:** The administration daemon was unable to create its required lock file. The operating-system error code and reason are indicated.

**Response:** Review the operating-system error and take appropriate corrective action.

---

**RBA1125F    An administration daemon is already running for *server\_name* (pid).**

**Cause:** An administration daemon is already running. The PID of the currently running server is shown.

**Response:** Either stop the current administration daemon and resubmit this command, or ignore this error and allow the current daemon to continue.

---

**RBS1126F    Session was closed by an external agent.**

**Cause:** The current session was terminated by some external agent; a possible cause is that the DBA issued an ALTER SYSTEM CLOSE USER SESSION command.

**Response:** Notify the warehouse administrator.

---

**RBA1127W    Changing user's priority cannot be supported on this platform because RENICE\_COMMAND is not set or set incorrectly.**

**Cause:** The administration daemon uses a non-standard UNIX command to change the priority of a running process. The UNIX renice command was not found when the administration daemon started, and there was no alternate command specified in the rbw.config file for the ADMIN RENICE\_COMMAND parameter.

**Response:** Ask the UNIX system administrator whether the platform has a renice utility and for its location (full pathname). Specify the location of the renice utility with the ADMIN RENICE\_COMMAND parameter in the rbw.config file. Then restart the administration daemon.

---

**RBA1128E    Changing process priorities not allowed on this platform.**

**Cause:** The administration daemon uses a non-standard UNIX command to change the priority of a running process. The UNIX renice command was not found when the administration daemon started, and there was no alternate command specified in the rbw.config file for the ADMIN RENICE\_COMMAND parameter.

**Response:** Ask the UNIX system administrator whether the platform has a renice utility and for its location (full pathname). Specify the location of the renice utility with the ADMIN RENICE\_COMMAND parameter in the rbw.config file. Then restart the administration daemon.

---

**RBA1129F    Unexpected IPC error in administration daemon initialization. Error: *error*.**

**Cause:** An unexpected error occurred while the administration daemon was initializing the IPC services.

**Response:** Contact Customer Support.

---

**RBA1130F**    **Missing definition for RB\_HOST or RB\_CONFIG environment variables.**

**Cause:** The TMU uses the RB\_HOST and RB\_CONFIG environment variables; they must be set before the TMU is started.

**Response:** Ensure that the RB\_HOST and RB\_CONFIG environment variables are set to appropriate values.

---

**RBA1131W**    **No processes found for user *user\_name* on database *dbname*.**

**Cause:** An ALTER SYSTEM command specified all processes for a specific user, but no processes are currently being run by that user.

**Response:** None necessary.

---

**RBS1132W**    **The DST query produced the following message. *message***

**Cause:** See the Cause information for the indicated message.

**Response:** See the Response information for the indicated message.

---

**RBS1133E**    **Negative value is invalid for STACK\_SIZE.**

**Cause:** Cannot set the STACK\_SIZE value negative. Valid values are positive integers with units specified as K or M. e.g. 10K, 20M etc.

**Response:** Give a positive valid value for STACK\_SIZE.

---

**RBS1134E**    **Invalid units '*unit\_name*' for STACK\_SIZE. Valid units are K (Kilobytes) and M (Megabytes).**

**Cause:** Invalid Unit specification for STACK\_SIZE. Valid units are K and M. e.g. 10K, 20M etc.

**Response:** Use proper unit specification.

---

**RBS1135E**    **This ALTER command is not supported for this platform or version.**

**Cause:** This alter command is supported only on Windows NT.

**Response:** Check the platform on which the server is running.

---

**RBS1200E**    **A LOCAL index is allowed only if the data is segmented by values and the index has the same number of segments as the table.**

**Cause:** A CREATE INDEX statement contained a SEGMENT LOCAL clause for the index, but the data was not segmented by values, or the wrong number of segments was specified.

**Response:** If the table is not segmented by values, you cannot create a local index. Otherwise retry the statement with a number of index segments that matches the number of data segments.

---

**RBS1201E**    **Segment *segment\_name* is not a segment of a table that is indexed by *index\_name*.**

**Cause:** In an ATTACH SEGMENT for a local index or a STAR index segment, the RANGE LIKE SEGMENT clause specifies a segment that is not in the table that the index is on.

**Response:** For the RANGE LIKE SEGMENT clause, you must specify a segment that is attached to the table on which the index is defined. Retry the statement with the name of a segment in the correct table.

---

**RBS1202E**    **Index *index\_name* is not a local index.**

**Cause:** ATTACH SEGMENT using the RANGE LIKE SEGMENT clause can only be used on an index that is segmented locally.

**Response:** Retry the statement, but specify ranges instead of the RANGE LIKE SEGMENT clause.

---

**RBS1203E**    **An index segment already exists for table segment *segment\_name*.**

**Cause:** In a local index there is one index segment for every data segment. The segment cannot be attached to a local index for the specified data segment because there is already a segment there.

**Response:** Query the NAME, LOCAL\_ID, and USAGE columns in the RBW\_SEGMENTS table to determine which table segment does not have a corresponding index segment. If this query shows a data segment with a LOCAL\_ID value and no index segment with the same LOCAL\_ID value, attach the index segment using that data segment in the RANGE LIKE SEGMENT clause.

---

**RBS1204E**    **The segmentation of local index *index\_name* does not match table segmentation.**

**Cause:** In a local index there should be one index segment for every data segment. Data segments have been attached or detached, but the corresponding local index segment was not attached or detached.

**Response:** Query the NAME, LOCAL\_ID, and USAGE columns in the RBW\_SEGMENTS table to determine how the table segmentation differs from the index segmentation. Correct the problem by attaching or detaching segments as required.

---

**RBS1205E**    **Cannot create local index *index\_name* as the key is unique.**

**Cause:** A local index cannot be created on a column or set of columns that are all declared UNIQUE.

**Response:** Consider creating the index using range segmentation.

---

**RBS1206E**    **Cannot detach segment from local index until corresponding data segment *segment\_name* is detached.**

**Cause:** Before detaching a segment from a local index, you must detach the corresponding segment from the table.

**Response:** Detach the corresponding segment from the table and then try the detach statement again.

---

**RBS1290E**    **Insufficient authority to issue command.**

**Cause:** The user running the Red Brick Warehouse Administration tool did not have the required authority. To run the necessary commands, a user must be a member of the DBA system role or have the ACCESS\_SYSINFO task authorization.

**Response:** Verify that the user has the correct task authorization.

---

**RBA1297I**    **Administration Daemon  
Process:*process\_id*  
RB\_HOST:'*connection\_name*'.**

**Cause:** The administration daemon started successfully.

**Response:** None necessary.

---

**RBA1298F**    **Database specification *name* was not found in the configuration file. *errinfo***

**Cause:** The database specified was not found in the rbw.config file and therefore cannot be opened.

**Response:** Ensure that there is a logical database name in the rbw.config file for the database you are trying to access.

RBS1299S	<p><b>Block Cache Reads/Writes:</b>  <i>number/number</i> <b>Mmap reads:</b>  <i>number</i> <b>Mem used:</b> <i>number</i> <b>Spill count:</b> <i>number</i> <b>Spill used:</b> <i>number</i>  <b>Parallel count:</b> <i>number</i></p> <p><b>Cause:</b> Full statistic messages have been enabled. This message follows 499.</p> <p><b>Response:</b> None necessary.</p>	<p><b>Decimal literal '<i>numeric_literal</i>' contains too many digits of precision.</b></p> <p><b>Cause:</b> A literal value in the WHERE clause of an UNLOAD statement contained a decimal literal value that has more digits than the column to which the literal is being compared.</p> <p><b>Response:</b> Change the literal value to match the column to which the value is being compared.</p>
RBS1300E	<p><b>ALTER TABLE DROP COLUMN is not allowed on a table that is referenced by a STAR index when that index is segmented like the referenced table.</b></p> <p><b>Cause:</b> An ALTER TABLE DROP COLUMN command was issued that would affect a STAR index containing a foreign key column that references the altered table and where that index was created with a SEGMENT LIKE REFERENCED TABLE clause.</p> <p><b>Response:</b> Drop the STAR index that caused the statement to fail and submit the ALTER TABLE statement again.</p>	<p><b>Starting duplicate removal phase with <i>number</i> duplicates.</b></p> <p><b>Cause:</b> The TMU started the final phase of duplicate removal during a LOAD DATA or REORG operation. This message is issued only when an index is built using the standard OPTIMIZED indexing mode. In some cases, this duplicate-removal phase can take substantial time.</p> <p><b>Response:</b> None necessary.</p>
RBL1302E	<p><b>String does not contain a complete time-stamp specification: '<i>invalid_timestamp</i>'.</b></p> <p><b>Cause:</b> A non-ANSI string was specified in the WHERE clause of an UNLOAD statement. The string did not contain both a time and a date.</p> <p><b>Response:</b> Change the string to contain a complete time-stamp specification.</p>	<p><b>Optimized index building updated rows because of <i>number</i> duplicate keys.</b></p> <p><b>Cause:</b> This message reports the number of input records that had duplicate key values during the merge phase of an optimized-index-building operation for a MODIFY or MODIFY AGGREGATE format load. These duplicate records were used to update the corresponding rows in the table and, in the case of MODIFY AGGREGATE mode, also perform the required aggregation operation.</p> <p><b>Response:</b> None necessary.</p>
RBL1303E	<p><b>Literal value '<i>numeric_literal</i>' contains too many digits of precision.</b></p> <p><b>Cause:</b> The WHERE clause of an UNLOAD statement contained a decimal literal value that has more digits after the decimal point than the column to which the literal is being compared.</p> <p><b>Response:</b> Remove trailing digits to match the scale of the comparison column.</p>	<p><b>Duplicates removed: <i>number</i>. Removal of duplicates continues...</b></p> <p><b>Cause:</b> The TMU started the final phase of duplicate removal during a LOAD DATA or REORG operation. This message is issued only when an index is built using OPTIMIZED mode. In some cases, this duplicate-removal phase can take a substantial amount of time. If the -i option was specified, a status message is printed to</p>



indicate the removal of duplicates based on the interval.

**Response:** None necessary.

---

**RBL1310W    Supplied user name and password override control file.**

**Cause:** A warehouse user name and password were supplied as part of the `rb_tmu` or `rb_ptmu` command invocation. A user name and password were also specified in the TMU control file. The values supplied in the TMU control file are ignored; the user name and password supplied with the command invocation override the values supplied in the TMU control file.

**Response:** None necessary.

---

**RBL1311W    Environment variable '*env\_name*' for parameter is not defined.**

**Cause:** The TMU control file contained a USER statement that referenced an environment variable for the user name or password, but the referenced environment variable is not defined. No value could be determined for the missing parameter.

**Response:** If the missing parameter is supplied on the command line when the TMU is invoked, you can ignore this warning. Otherwise, define the missing environment variable and re-invoke the TMU.

---

**RBL1312I    Generated *statement\_type* statement for table *table\_name*.**

**Cause:** Confirms the successful completion of a TMU GENERATE operation.

**Response:** None necessary.

---

**RBA1313E    Maximum size of COMMENT exceeded.**

**Cause:** A string literal supplied in the COMMENT clause of a command exceeded the maximum allowable length of 256 bytes.

**Response:** Shorten the comment and resubmit the command.

---

**RBS1314E    Insufficient authority to ALTER INDEX *index\_name*.**

**Cause:** The user did not have the required authority to alter the index named in the statement. To alter an index, a user must have ALTER\_ANY authorization, be a member of the DBA system role, be the creator of the table and have the ALTER\_OWN authorization, or be the creator of the index and be a member of the RESOURCE system role.

**Response:** Verify that the user has the correct authority to alter the index named in the statement.

---

**RBS1315E    Insufficient authority to ALTER MACRO *macro\_name*.**

**Cause:** The user did not have the required authority to alter the macro named in the statement. To alter a macro, a user must have ALTER\_ANY authorization, be a member of the DBA system role, be the creator of the macro and have the ALTER\_OWN authorization, or be the creator of the macro and be a member of the RESOURCE system role.

**Response:** Verify that the user has the correct authority to alter the macro named in the statement.

---

**RBS1316E    Insufficient authority to ALTER VIEW *view\_name*.**

**Cause:** The user did not have the required authority to alter the view named in the statement. To alter a view, a user must have ALTER\_ANY authorization, be a member of the DBA system role, be the creator of the view and have the ALTER\_OWN authorization, or be the creator of the view and be a member of the RESOURCE system role.

**Response:** Verify that the user has the correct authority to alter the view named in the statement.



<div>RBS1317E    <b>Insufficient authority to ALTER SYNONYM</b> <i>synonym_name</i>.</div> <div><b>Cause:</b> The user did not have the required authority to alter the synonym named in the statement. To alter a synonym, a user must have ALTER_ANY authorization, be a member of the DBA system role, be the creator of the synonym and have the ALTER_OWN authorization, or be the creator of the synonym and be a member of the RESOURCE system role.</div> <div><b>Response:</b> Verify that the user has the correct authority to alter the synonym named in the statement.</div>	<div>RBS1322W    <b>REORG of referencing table STAR indexes might be required for changed MAXROWS PER SEGMENT value to take effect.</b></div> <div><b>Cause:</b> An ALTER TABLE CHANGE MAXROWS PER SEGMENT command was issued, and the new MAXROWS PER SEGMENT value is the same as the old MAXROWS PER SEGMENT value when both values are rounded up to the next power of 2. Changes of this type require a REORG operation on only those STAR indexes that reference single-segment tables and where the product of the MAXROWS PER SEGMENT value from each referenced table is less than 2^32.</div>
<div>RBS1318E    <b>Insufficient authority to ALTER ROLE</b> <i>role_name</i>.</div> <div><b>Cause:</b> The user who issued the ALTER ROLE statement did not have the required authority. To alter a role, a user must have USER_MANAGEMENT authorization, or be a member of the DBA system role.</div> <div><b>Response:</b> Verify that the user has the correct authority to issue the ALTER ROLE command.</div>	<div><b>Response:</b> None necessary, but issuing a REORG command against a referencing table will cause its STAR index(es) to be rebuilt, reflecting the new MAXROWS PER SEGMENT value. If you do not run the REORG operation, then any referencing STAR indexes might not be able to contain all of the altered table's values.</div> <div>The following query can be used to identify the affected STAR indexes:</div>
<div>RBS1319E    <b>The column 'column_name' is not defined in the view 'view_name'.</b></div> <div><b>Cause:</b> An ALTER VIEW ... ALTER COMMENT statement specified a column name that does not exist in the specified view.</div> <div><b>Response:</b> Correct and resubmit the statement.</div>	<div>SELECT DISTINCT INAME FROM RBW_INDEXCOLUMNS WHERE FKNAME IN (SELECT FKCONSTRAINT FROM RBW_RELATIONSHIPS WHERE PKTABLE = 'table_name');</div> <div>where 'table_name' is the name of the table that was altered.</div>
<div>RBS1320E    <b>The column 'column_name' is not defined in the synonym 'synonym_name'.</b></div> <div><b>Cause:</b> An ALTER SYNONYM ... ALTER COMMENT statement specified a column name that does not exist in the specified synonym.</div> <div><b>Response:</b> Correct and resubmit the statement.</div>	<div>RBS1324E    <b>The value <i>number</i> could not be converted to a REAL because it is out of range.</b></div> <div><b>Cause:</b> An argument to the REAL function was out of range for a 4-byte floating-point number.</div>
	<div>RBS1325W    <b>Garbled message from admin daemon. Current length: <i>message_length</i> Maximum length: <i>max_length</i></b></div> <div><b>Cause:</b> A query of one of the Dynamic Statistic Tables received a packet from the administration daemon with an invalid length. Some rows from</div>

the DST might be missing.

**Response:** Resubmit the command.

---

**RBS1326E ORDER BY reference must be an integer value or a column reference.**

**Cause:** ORDER BY reference must be an integer value or a column reference.

**Response:** Correct the error and resubmit the command.

---

**RBL1329E Pipe commands not allowed with DDLFILE.**

**Cause:** A DDL file specification started with the UNIX pipe character.

**Response:** Remove the pipe command from the DDL filename.

---

**RBL1330E The DDLFILE is not allowed to be /dev/null.**

**Cause:** /dev/null was specified as the DDLFILE in the UPGRADE statement. Setting the DDLFILE to /dev/null would result in the loss of all views from the database being upgraded.

**Response:** Specify another file name for the DDLFILE, or if you do not want to retain any views in the upgraded database, drop all views before you issue the UPGRADE statement.

---

**RBL1331W The complete text of the view *view\_name* is not available.**

**Cause:** The RBW\_VIEWTEXT system table does not contain the complete definition for the named view. The definition as stored in the RBW\_VIEWTEXT system table does not end with a semicolon, and therefore it is possible that some of the text is missing. The DDL statement to re-create the view in the upgraded database has been generated, but it might be incomplete.

**Response:** Review the text of the CREATE VIEW statement in the DDLFILE file, and make any necessary corrections before you create the

view in the upgraded database.

---

**RBL1332E A DDLFILE specification is required to UPGRADE this database.**

**Cause:** No DDLFILE filename was specified in the UPGRADE statement, but one is required because the database to be upgraded contains at least one view.

**Response:** Specify a DDLFILE filename in the UPGRADE statement.

---

**RBL1333I Total views deleted: *viewcount***

**Cause:** Specifies the number of views deleted by the UPGRADE operation.

**Response:** The following message identifies the name of an SQL script that can be used to recreate the views in the upgraded database.

---

**RBL1334I SQL script to recreate views: *'filename'***

**Cause:** Identifies the name of the SQL script which recreates the views deleted in the UPGRADE process.

**Response:** Use the named file as SQL input to the RISQL Entry Tool (or any tool that accepts SQL input) to recreate the deleted views.

---

**RBS1335E A B-tree index is required on the primary key of table *'table\_name'*.**

**Cause:** A STAR index cannot be created because a B-TREE index does not exist on the primary key of the table identified in the message. Each table referenced by a foreign key in the STAR index key must have an index defined on its primary key. If the referenced table is a synonym then the base table of the synonym must have a B-TREE index on its primary key.

**Response:** Issue a CREATE INDEX statement to define an index on the primary key columns of the referenced table.

---

**RBS1336E**    **Attaching a segment to table '*table\_name*' would cause the MAXSEGMENTS value of *maxsegs* to be exceeded.**

**Cause:** The number of segments attached to the table equals the MAXSEGMENTS value. This number cannot be exceeded.

**Response:** Use an ALTER TABLE ... CHANGE MAXSEGMENTS command to increase the MAXSEGMENTS value.

---

**RBL1337W**    **UPGRADE cannot be performed: The empty STAR index *index\_name* must be reorganized or dropped before upgrade.**

**Cause:** The UPGRADE operation cannot process uninitialized, empty STAR indexes. An uninitialized STAR index only occurs as the default STAR index of a newly created, empty major table. The index must be initialized or removed before you can proceed with the UPGRADE operation.

**Response:** Either use the TMU REORG command to reorganize the table, which will initialize the index, or drop the empty table. Then rerun the UPGRADE operation.

---

**RBS1338E**    **Too many columns in the definition of the primary key.**

**Cause:** The number of names in the column list specified for the primary key of the table exceeds 256.

**Response:** Correct and resubmit the statement.

---

**RBL1339W**    **Index *indexname* is invalid.**

**Cause:** The index indicated was marked "invalid" in the 4.X version of the database and therefore cannot be upgraded to the 5.0 format. The UPGRADE operation will skip this index and continue to upgrade the other indexes.

**Response:** When the UPGRADE operation is complete, either use the TMU REORG command to reorganize the table on which the index is defined, or drop the index and recreate it.

---

**RBL1340W**    **Index *indexname* not upgraded.**

**Cause:** The named index has not been upgraded, for the reason indicated in a message that precedes this one. The UPGRADE operation has marked the index "invalid"; it cannot be used without being reorganized.

**Response:** When the UPGRADE operation on the entire database is complete, either use the TMU REORG command to reorganize the table on which the index is defined, or drop the index and recreate it.

---

**RBS1341W**    **Segment name *segname* used in the range specification of STAR index *indexname*.**

**Cause:** An attempt was made to detach a segment that is named in the range specification of a STAR index. The segment cannot be detached until all references to it are removed.

**Response:** Either drop the named STAR index or use ALTER SEGMENT to change the segmentation scheme of the index so that it does not reference the segment to be detached. Then resubmit the ALTER SEGMENT ... DETACH statement.

---

**RBS1342W**    **Row number in range specification of STAR index *indexname* equals or exceeds new MAXROWS PER SEGMENT value.**

**Cause:** The table specified in the ALTER TABLE ... CHANGE MAXROWS PER SEGMENT statement is referenced by the leading foreign key in the key of the named STAR index. The range specification that defines how the STAR index is segmented contains a row number value that equals or exceeds the new MAXROWS PER SEGMENT value. All row numbers in the range specification of a STAR index must be less than the MAXROWS PER SEGMENT value of the table referenced by the segmenting column of the STAR index.

**Response:** Either drop the named STAR index or use ALTER SEGMENT to change the

segmentation scheme of the index so that all row numbers are less than the MAXROWS PER SEGMENT value. Then resubmit the ALTER TABLE ... CHANGE MAXROWS PER SEGMENT statement.

---

**RBS1343E    Operation failed because it would invalidate the range specification of one or more STAR indexes.**

**Cause:** An ALTER TABLE ... CHANGE MAXROWS PER SEGMENT or an ALTER SEGMENT ... DETACH or an ALTER SEGMENT RANGE MOVE statement was attempted that would change values used in the range specification of at least one STAR index. The names of the STAR indexes affected are identified in the preceding messages.

**Response:** Either drop the named STAR indexes, or use ALTER SEGMENT to change the segmentation schemes of the indexes so that they do not use the segment to be detached or they do not use row number values that exceeds the MAXROWS PER SEGMENT value of the referenced table.

---

**RBS1344E    Operation not allowed because primary key values in segment may be used in rows from a referencing table.**

**Cause:** An ALTER SEGMENT ... CLEAR or ALTER SEGMENT ... OFFLINE operation was attempted on a non-empty data segment, and the table to which the segment is attached is referenced by at least one other non-empty table. The rows in the segment might contain primary key values that match foreign key values in the referencing tables. Thus, clearing the segment or taking it offline could potentially cause a referential integrity violation.

**Response:** To ensure that referential integrity is not violated by the ALTER SEGMENT operation, delete all data from the referencing tables before attempting the ALTER SEGMENT operation. If this is not feasible or if you can guarantee that referential integrity will not be violated by the operation, issue the ALTER SEGMENT statement with the OVERRIDE REFCHK option.

---

**RBS1345E    Range values for segment *segment\_name* must be increasing. Local segment id of segment *segname\_left* exceeds local segment id of segment *segname\_right*.**

**Cause:** A range was supplied for a STAR index in which the segment named in the lower bound of the range has a local segment ID that is greater than the local segment ID of the segment named in the upper bound of the range.

**Response:** Correct the range and resubmit the command.

---

**RBS1346E    Referential integrity is violated for the proposed STAR index.**

**Cause:** At least one row in the referencing table has a foreign key value that has no corresponding primary key value in the referenced table.

**Response:** Referential integrity must exist before the STAR index can be created. Either offending row(s) must be dropped from the referencing table or corresponding rows must be added to the referenced table before the STAR index can be created.

---

**RBS1347E    Segments can be attached only to base tables or indexes defined on base tables.**

**Cause:** The ALTER SEGMENT ... ATTACH statement references a view or a temporary table. Segments cannot be attached to these objects.

**Response:** Correct the statement to reference a persistent base table.

---

**RBS1348E    Table *new\_refd\_table* must be a synonym of base table *old\_refd\_table*.**

**Cause:** An ALTER TABLE ... ALTER CONSTRAINT statement attempted to change the table referenced by a foreign key to an invalid table. The table referenced by a foreign key can be changed only if the new table is a synonym of the original referenced table or if the

new and original referenced tables are both synonyms of the same base table.

**Response:** Correct the referenced table and resubmit the command.

---

**RBS1349E**    *'fkey\_name' does not identify a foreign key in the table 'table\_name'.*

**Cause:** The supplied name was not a foreign key constraint name or the name of the column in a single column foreign key belonging to the table being altered. The ALTER CONSTRAINT option applies only to foreign keys.

**Response:** Check the name and table definition.

---

**RBL1350F**    **Datetime mask 'datemask' for column *column\_name* contains invalid fields for numeric input.**

**Cause:** The datetime mask contained a variable length field, separator, or a character field (such as AM/PM or month name) and the input field is a numeric field. When a numeric field is loaded into a datetime column, the mask can contain only fixed-length datetime fields. Separators and alphabetic input are not allowed.

**Response:** Correct the datetime mask in the LOAD DATA statement.

---

**RBL1351W**    **Ignoring scale specification for numeric input for datetime column *column\_name*.**

**Cause:** A numeric field that was used as input for a datetime column had a scale factor specified for it. The scale factor was ignored.

**Response:** None necessary.

---

**RBL1352E**    **Datetime mask 'datemask' for column *column\_name* specifies *specified\_number\_of\_digits* digits and needs to specify *needed\_number\_of\_digits*.**

**Cause:** The datetime mask used with a decimal input field specified the incorrect number of digits based on the input field value. The

specified number of digits must match the number of digits in the input field value. For packed-decimal input, there are two digits for each byte of input, with the exception of the last byte, which contains one digit and the sign indicator. For example, a five-byte packed-decimal field will contain 9 digits. For zoned-decimal input, each byte contains one digit.

**Response:** Correct the datetime mask in the LOAD DATA statement.

---

**RBL1353E**    **Datetime mask 'datemask' for column *column\_name* specifies *specified\_number\_of\_digits* digits, which is greater than the number of digits in a *number* byte integer value.**

**Cause:** The datetime mask used with a binary-integer input field contains more digits than can occur in the number of bytes for the specified fieldtype. For example, the INTEGER fieldtype (4 bytes) can contain 10 digits; the SMALLINT fieldtype (2 bytes), 5 digits; and the TINYINT (1 byte), 3 digits.

**Response:** Correct the datetime mask in the LOAD DATA statement.

---

**RBL1354W**    **Integer value *number* for column *column\_name* contains more than *number* digits. Row *number* of table *table\_name*.**

**Cause:** The integer input value contained more digits than were specified in the datetime mask. The record was placed in the discard file.

**Response:** Check the input data or the discard file.

---

**RBL1355W**    **Negative numeric value not allowed for datetime column *column\_name*. Row *number* of table *table\_name*.**

**Cause:** An attempt was made to load a negative numeric value into a datetime column. Only positive integers, packed decimal, and zoned

decimal values can be loaded into datetime types.

**Response:** Check the input data or the discard file.

---

**RBL1360F    Cannot use DEFAULT operator on pseudocolumn *pseudocolumn\_name*.**

**Cause:** The DEFAULT operator was specified for a pseudocolumn. Because the pseudocolumn is not actually in the table, it cannot have a default value.

**Response:** Remove the DEFAULT operator on the pseudocolumn.

---

**RBL1361F    Cannot use RETAIN operator on pseudocolumn *pseudocolumn\_name*.**

**Cause:** The RETAIN operator was specified for a pseudocolumn. Because the pseudocolumn is not actually in the table, there is no value to RETAIN.

**Response:** Remove the RETAIN operator from the pseudocolumn.

---

**RBL1362F    RETAIN operator only allowed in MODIFY or UPDATE load.**

**Cause:** The RETAIN operator was specified and the load mode was not MODIFY or UPDATE mode. In modes other than MODIFY and UPDATE, existing columns cannot be updated and existing values cannot be retained.

**Response:** Correct the LOAD DATA statement.

---

**RBL1363F    Cannot use RETAIN on primary key column *column\_name*.**

**Cause:** The RETAIN operator was specified on a primary key column. In order for a LOAD operation in MODIFY or UPDATE mode to find the row that contains the column value to be retained, there must be an input value specified for the primary key columns. Without this value, the table row to be updated or modified cannot be identified.

**Response:** Correct the LOAD DATA statement.

---

**RBL1364E    In UPDATE or MODIFY mode, explicit values must be specified for all the columns of the primary key. Missing column *column\_name*.**

**Cause:** A LOAD DATA operation in UPDATE or MODIFY mode did not have all primary key values specified, making it impossible to determine whether an input row matches an existing row in the table.

**Response:** Correct the LOAD DATA statement.

---

**RBS1400E    Value *value* would overflow the column with type *data\_type*.**

**Cause:** An attempt was made to store a numeric data value with a precision greater than 9 digits into a column whose datatype is too small to represent the value.

---

**RBS1401E    A NUMERIC or DECIMAL value would overflow the column with type *data\_type*.**

**Cause:** An attempt was made to store a numeric data value with a precision greater than 9 digits into a column whose datatype is too small to represent the value. The value that could not be stored exceeds 38 digits of decimal precision.

---

**RBS1402E    A numeric constant is invalid.**

**Cause:** A numeric constant specified in the command is invalid. For example, two decimal points in a literal such as '12.3.4' would cause this error.

**Response:** Submit the command with a valid numeric constant.

---

**RBS1404E    Argument *number* of function *function\_name* must be an integer literal.**

**Cause:** Some scalar functions require that certain arguments be integer literals. For example, the precision and scale arguments for the DECIMAL function must take integer literals, if specified.



**Response:** Submit the command with integer literals where required.

---

**RBS1405E     Result of multiplication cannot be represented in an exact numeric datatype.**

**Cause:** The result of an expression involving the multiplication of exact numerics could not be represented internally without the loss of significant digits. This situation occurs either prior to row processing when the result type of the expression requires more than 38 fractional decimal digits, or during row processing when the value that results from multiplication exceeds 38 digits.

**Response:** Either simplify the expression or introduce scalar functions to coerce the intermediate results to alternate datatypes or precisions. The FLOAT scalar function can be used to force the evaluation of the expression to be performed in approximate numeric datatypes. The INTEGER and DECIMAL scalar functions can be used to reduce the scale of the operands of the multiplication operator so that the result of the multiplication will have fewer fractional digits.

---

**RBS1406E     Evaluation of a numeric expression resulted in overflow or underflow.**

**Cause:** Evaluation of a numeric expression caused overflow or underflow of intermediate results. A possible cause is an operation such as multiply that resulted in a value that could not be represented in 38 decimal digits.

**Response:** Either simplify the expression or introduce scalar functions to coerce the intermediate results to alternative datatypes or precisions. The FLOAT scalar function can be used to force the evaluation of the expression to be performed in approximate numeric datatypes which support a greater range of values but with less precision. The INTEGER and DECIMAL scalar functions can be used to reduce the scale of intermediate results.

---

**RBL1407E     UPGRADE operation cannot continue because there are active users in the database.**

**Cause:** An UPGRADE command could not continue because other users were accessing the database.

**Response:** Ensure there are no active users in the database and restart the UPGRADE operation.

---

**RBS1408E     Function '*function\_name*' was called with argument *number* set to a numeric expression that is greater than the allowed maximum of *number*.**

**Cause:** The value supplied for this argument is too large.

**Response:** Correct the error and resubmit the command.

---

**RBS1409E     Function '*function\_name*' was called with argument *number* set to a numeric expression that is less than the allowed minimum of *number*.**

**Cause:** The value supplied for this argument is too small.

**Response:** Correct the error and resubmit the command.

---

**RBS1413F     Unable to fork process, operating system error: *string*.**

**Cause:** An attempt to fork a process failed. The operating system returned the indicated error, which might be the result of an operating system resource being exhausted at the system or user (redbrick) level. Often the resource that has been exhausted is swap space or processes.

Possible causes are an incorrectly configured kernel (such as the swap space or the number of processes per system being set too low), incorrect configuration parameters in the rbw.config file (such as TOTALQUERYPROCS being set too high), or other applications or subsystems



consuming the available resources.

**Response:** Examine the `rbw.config` file to verify that the configuration options are set as desired (paying particular attention to the `MAX_SERVERS`, `TOTALQUERYPROCS`, and `QUERY_MEMORY_LIMIT` parameters).

Verify that the kernel is configured as recommended by Red Brick Systems for the configuration parameters specified in the `rbw.config` file (refer to the appropriate Red Brick Installation and Configuration Guide). Verify that if applications other than Red Brick Warehouse are running on the server machine, then the kernel parameters have been adjusted to reflect this additional load.

Examine the operating system logs for messages logged at or shortly before the time this error was reported.

Based on this analysis, adjust the kernel parameters, `rbw.config` parameters, and/or concurrent application load as appropriate. If necessary, contact the Customer Support.

---

**RBA1414W**    **The file system on which PSU id *psu\_sequence\_number\_p* of segment *segment\_name* resides has run out of space. Continuing segment space allocation on PSU id *psu\_sequence\_number\_p+1*.**

**Cause:** The filesystem on which the first of the identified PSUs resides ran out of disk space, possibly because of other files that reside on the same filesystem. When this situation occurs, the `MAXSIZE` value of that PSU is automatically reset to that PSU's actual amount of used space and space allocation for the identified segment continues with the next PSU in sequence.

**Response:** None necessary.

---

**RBA1415E**    **Insufficient segment space is available on segment *segment\_name* to continue execution.**

**Cause:** The identified segment has reached its `MAXSIZE` value. The cause might be identified

in one or more previously issued messages.

**Response:** Increase the segment's `MAXSIZE` value by increasing the `MAXSIZE` value of the last of the segment's PSUs, which is also the current PSU.

---

**RBA1416E**    **The statement cannot complete because segment *segment\_name* is on optical storage.**

**Cause:** An operation that requires non-optical segments (because of `OPTICAL AVAILABILITY` options) referenced a segment that is an optical segment.

**Response:** Change the `OPTICAL AVAILABILITY` option settings.

---

**RBS1417W**    **The statement might return incorrect results because segment *segment\_name* is an optical segment.**

**Cause:** A segment needed by the statement was on optical storage, and the `OPTICAL AVAILABILITY` parameter forced the statement to ignore the missing data.

**Response:** Either ensure that no segments of a table or index are on optical storage or set the `OPTICAL AVAILABILITY` parameter to force the statement to fail as necessary.

---

**RBS1418I**    **The statement might return incorrect results because segment *segment\_name* is an optical segment.**

**Cause:** A segment needed by the statement was on optical storage, and the `OPTICAL AVAILABILITY` parameter forced the statement to ignore the missing data.

**Response:** Either ensure that no segments of a table or index are on optical storage or set the `OPTICAL AVAILABILITY` parameter so that the statement fails as necessary.

---

**RBS1419W    The statement causes access to an optical segment *segment\_name*.**

**Cause:** A segment needed by the statement was on optical storage, and the OPTICAL AVAILABILITY parameter forced the statement to access data on optical segment.

**Response:** None necessary. To change behavior of the statement, set the OPTICAL AVAILABILITY parameter so that the statement fails as necessary.

---

**RBS1420I    The statement causes access to an optical segment *segment\_name*.**

**Cause:** A segment needed by the statement was on optical storage, and the OPTICAL AVAILABILITY parameter forced the statement to access data on optical segment.

**Response:** None necessary. To change behavior of the statement, set the OPTICAL AVAILABILITY parameter so that the statement fails as necessary.

---

**RBL1421I    Segment *segment\_name* is on optical storage.**

**Cause:** A segment referenced by a TMU operation is an optical segment.

**Response:** None necessary.

---

**RBS1422S    Used relation scan at query level *number*.**

**Cause:** The server determined that this query would not benefit from parallel query execution of a relation scan.

---

**RBS1423S    Used STARjoin at query level *number*.**

**Cause:** The server determined that this query would not benefit from parallel query execution of a relation scan.

---

**RBS1424E    The DOMAIN SIZE clause is only allowed on TARGET indexes.**

**Cause:** A DOMAIN SIZE specification was included for a non-TARGET index. The DOMAIN SIZE clause is only allowed for TARGET indexes.

**Response:** Either remove the DOMAIN SIZE clause from the CREATE INDEX command or create a TARGET index.

---

**RBS1425W    Missing directory or softlink in PSU path '*file\_name*'.**

**Cause:** The PSU location cannot be translated to a physical location. This could occur because some directory level (or softlink) in the pathname of the PSU is either missing or inaccessible.

**Response:** Verify that the directories or softlink in the PSU path exists and is accessible.

---

**RBA1426E    Operating system denied read access for directory '*file\_name*'.**

**Cause:** The operating system denied read access to the indicated directory.

**Response:** Check the permissions on the directory and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must have read and write access for the owner of the Red Brick Warehouse server executable file.

---

**RBS1427E    Directory *file\_name* does not exist.**

**Cause:** The user issued an ALTER SEGMENT ... MIGRATE TO statement and the target directory did not exist.

**Response:** Verify that the statement correctly specifies an existing directory and resubmit it.

---

**RBS1428E    *file\_name* is not a directory and cannot be used.**

**Cause:** The user issued an ALTER SEGMENT ... MIGRATE TO statement and the target is not a directory.

**Response:** Verify that the statement correctly specifies an existing directory and resubmit it.

---

**RBS1429I**    *file\_name* is a link.

**Cause:** The user issued an ALTER SEGMENT ... MIGRATE TO statement and the target directory is a link.

**Response:** If the target directory was not intended to be a link, correct the target directory name, and resubmit the statement.

---

**RBS1430W**    **File with same name as PSU id**  
*psu\_num1* already exists in  
*file\_name*.

**Cause:** The user issued an ALTER SEGMENT ... MIGRATE TO statement and the name of the PSU was the same name as that of an existing file.

**Response:** Either remove the existing file or, if it is a valid PSU, use an ALTER SEGMENT...CHANGE PATH command to specify a new PSU filename so that duplicate PSU names do not occur.

---

**RBS1431W**    **Insufficient disk space in *file\_name***  
**while copying PSU id *psu\_num1***

**Cause:** A full filesystem prevented Red Brick Warehouse from copying a PSU during an ALTER SEGMENT ... MIGRATE TO command.

**Response:** After making sufficient disk space available on the full filesystem for the necessary work, resubmit the ALTER SEGMENT ... MIGRATE TO command.

---

**RBS1432W**    **Migrated only first *psu\_num1* PSU**  
**to *file\_name*.**

**Cause:** An error prevented Red Brick Warehouse from migrating all PSUs in the segment to the new directory.

**Response:** Check previous messages for errors or warnings.

---

**RBS1433I**    *parameter* is currently set to *value*.

**Cause:** The user issued a command to set a parallel query FORCE option but did not specify a value. This message displays the current value.

**Response:** None necessary.

---

**RBS1434I**    *parameter* is currently set to OFF.

**Cause:** The user issued a command to set a parallel query FORCE option but did not specify a value. This message displays the current value.

**Response:** None necessary.

---

**RBL1435F**    **Cannot use ACCEPT/REJECT**  
**clause when using a**  
**column\_name in a non-update**  
**mode.**

**Cause:** An ACCEPT/REJECT clause was specified and one of the arguments was a column name, but the mode was not UPDATE or MODIFY. The INSERT, APPEND, and REPLACE modes cannot be used with an ACCEPT/REJECT clause that uses a column reference.

**Response:** Change either the mode or the ACCEPT/REJECT clause, and then resubmit the LOAD DATA statement.

---

**RBS1436I**    **Query terminated because**  
**ROWCOUNT number of rows**  
**have been fetched. Rows returned:**  
*number*.

**Cause:** The user is subject to a ROWCOUNT constraint that caused the query to terminate. This message is issued even if the actual number of rows returned by the query is equal to the ROWCOUNT value.

---

**RBA1437E**    **Attempt to configure more than**  
*number temp\_space\_type*  
**DIRECTORIES.**

**Cause:** An attempt was made to configure more directories for the indicated type of temporary space than the maximum number allowed, either specified with an rbw.config file entry or with a

SET {QUERY | INDEX}\_TEMPSPACE  
DIRECTORIES command.

**Response:** Check the rbw.config file or SET commands to determine how many directories you have configured. The maximum number is 64 directories for INDEX\_TEMPSPACE directories and 64 directories for QUERY\_TEMPSPACE directories.

---

**RBA1438E**    *temp\_space\_type* **DIRECTORY name 'path\_name' is too long.**

**Cause:** The indicated temporary space directory name is too long. The directory name was specified either in the rbw.config file or with a SET {QUERY | INDEX}\_TEMPSPACE DIRECTORIES command.

**Response:** Check the rbw.config file or SET command.

---

**RBA1439E**    *temp\_space\_type* **DIRECTORY name 'path\_name' is a duplicate.**

**Cause:** The indicated temporary space directory name was previously specified in the same SET {QUERY | INDEX}\_TEMPSPACE DIRECTORIES command.

**Response:** Check the SET command.

---

**RBA1440E**    **Index *index\_name* is not a TARGET index.**

**Cause:** The index specified in the ALTER INDEX CHANGE DOMAIN SIZE command was not a TARGET index; only TARGET indexes have domain sizes.

**Response:** Correct the ALTER INDEX command by removing the CHANGE DOMAIN SIZE clause or by specifying a TARGET index.

---

**RBA1441E**    **TARGET index *index\_name* domain size not changed.**

**Cause:** The TARGET index specified in the ALTER INDEX CHANGE DOMAIN SIZE command already had the specified domain size.

**Response:** Ensure the new domain size is

different from the existing domain size.

---

**RBA1442W**    **Unexpected results from OS. code:**  
*errorcode command*  
*caller:location=>caller:location*

**Cause:** An operating system call returned with an unexpected result.

**Response:** Note the values in this message and contact Customer Support.

---

**RBS1443W**    **No more informational messages will be reported for this query due to the INFO\_MESSAGE\_LIMIT constraint. Informational messages generated: *number*.**

**Cause:** The INFO\_MESSAGE\_LIMIT number of information messages have been generated for this query.

**Response:** If more messages are required, change the INFO\_MESSAGE\_LIMIT value.

---

**RBA1444E**    **Invalid units '*unit\_name*' for *temp\_space\_type* MAXSPILLSIZE. Valid units are '*unit\_name*' (Kilobytes), '*unit\_name*' (Megabytes) and '*unit\_name*' (Gigabytes).**

---

**RBA1445E**    **Cannot perform offline load on empty table. Table name: *table\_name*.**

**Cause:** Red Brick Warehouse does not support offline LOAD operations on empty tables.

**Response:** Insert at least one row before beginning an offline LOAD operation.

---

**RBS1446W**    **Unexpected message received from the admin daemon. Message length: *message\_length*.**

**Cause:** A query of one of the Dynamic Statistic Tables received an unexpected packet from the administration daemon. Some rows from the DST might be missing.

**Response:** Resubmit the command.

---

**RBS1447I**     **TARGET index** *index\_name* **has been marked invalid due to domain size change. Reorganize the index.**

**Cause:** An ALTER TARGET INDEX/CHANGE DOMAIN SIZE command was issued. The TARGET index must be reorganized before the index can be used again.

**Response:** Use the TMU REORG command to reorganize the index.

---

**RBS1448E**     **Cannot create TARGET index** *index\_name* **on unique column** *column\_name*.

**Cause:** A TARGET index cannot be created on a column that is declared UNIQUE.

**Response:** Consider using a standard B-TREE index on the column.

---

**RBA1449E**     **Unable to spill to disk as the size of the result row exceeds the allowed maximum of** *number* **bytes. The size of the result row is** *number* **bytes.**

**Cause:** This error is issued only for queries that spill to disk. The size of the result row and the null bytes to specify null values can never be larger than (BC\_BLOCK\_SIZE - (sizeof (RABlockHeader) + 1)), which is 8186 bytes.

---

**RBL1450W**     **Segment** *segment\_name* **is on optical storage.**

**Cause:** A segment referenced by a TMU operation is an optical segment.

**Response:** None necessary. If you do not want this warning message displayed, change the OPTICAL AVAILABILITY entry in the rbw.config file.

---

**RBA1453E**     **Invalid units** '*unit\_name*' **for QUERY MEMORY LIMIT. Valid units are** '*unit\_name*' (Kilobytes), '*unit\_name*' (Megabytes) and '*unit\_name*' (Gigabytes).

**Cause:** Either the TUNE QUERY\_MEMORY\_LIMIT entry in the rbw.config file specifies an invalid unit or a SET QUERY MEMORY LIMIT command was issued with an invalid unit.

**Response:** Provide a valid unit.

---

**RBA1454E**     **QUERY MEMORY LIMIT value** *numberunits* **is not within value range. The valid range is from** *minimumunits* **to** *maximumunits*.

**Cause:** Either the TUNE QUERY\_MEMORY\_LIMIT entry in the rbw.config file specifies an invalid value or a SET QUERY MEMORY LIMIT command was issued with an invalid value.

**Response:** Provide a value within the legal range.

---

**RBA1455E**     **QUERY MEMORY LIMIT value** *numberunits* **is too small.**

**Cause:** The default value is specified by the TUNE QUERY\_MEMORY\_LIMIT entry in the rbw.config file; this value might have been overridden with the SET QUERY MEMORY LIMIT command.

**Response:** Increase the QUERY MEMORY LIMIT value.

---

**RBS1456I**     *parameter* **is currently set to ON.**

**Cause:** The user issued a command to set a parallel query FORCE option, but did not specify a value. This message displays the current value.

**Response:** None necessary.

---

**RBS1457S**    **EXCHANGE (ID: *number*)**  
**Parallelism over *number* times**  
**High: *number* Low: *number***  
**Average: *number*.**

**Cause:** Informational statistics messages have been enabled with the SET STATS command.

**Response:** Run Explain on the above query for more information about this EXCHANGE (ID: *number*).

---

**RBS1458S**    **CHOOSE PLAN (ID: *number*)**  
**Choice: *number* was chosen *number* times.**

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the above query for more information about this CHOOSE PLAN choice.

---

**RBS1459S**    **CHOOSE PLAN (ID: *number*)**  
**STARjoin on *number* tables was done *number* times.**

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the above query for more information about this CHOOSE PLAN (ID: *number*).

---

**RBS1460S**    **CHOOSE PLAN (ID: *number*) used**  
**Index *index\_name* of Table**  
***table\_name* *number* times for**  
**STARjoin.**

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the above query for more information about this CHOOSE PLAN (ID: *number*).

---

**RBS1461S**    **CHOOSE PLAN (ID: *number*)**  
**TARGETjoin was done *number* times.**

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the above query for more information about this CHOOSE PLAN (ID: *number*).

---

**RBS1462I**    **SQL statement was rewritten to**  
**use precomputed view *view\_name*.**

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the associated query for more information about how this statement was rewritten and executed.

---

**RBS1463I**    **REWRITTEN SQL:**

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the associated query for more information about how this generated SQL was executed.

---

**RBS1464I**    *sqlchunk*

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the associated query for more information about how this generated SQL was executed.

---

**RBS1465I**    **\*\* Error processing SQL message,**  
**line too long \*\***

**Cause:** Informational statistics messages have been enabled.

**Response:** Run Explain on the associated query for more information about how this generated SQL was executed.

---

**RBS1466I**    **SAMPLE SCAN (ID: *number*)**  
**Sample Seed: *number*. Sample Size**  
**specified *number* percent (*number*)**  
***string*, returned *number* percent**  
**(*number*) *string*.**

**Cause:** Informational statistics messages have been enabled.

**Response:** None needed.



---

**RBS1467I**     **SAMPLE SCAN (ID: *number*)**  
**Sample Seed: *number*. Sample Size**  
**specified *number* (*number* percent)**  
***string*, returned *number* (*number***  
**percent) *string*.**

**Cause:** Informational statistics messages have been enabled.

**Response:** None needed.

---

**RBS1468W**     **SAMPLE SCAN (ID: *number*) The**  
**variance between the sampled**  
**rows and the specified sample**  
**size is greater than the specified**  
**margin of *number* percent.**

**Cause:** The generation of the random sample is a chance event. In this particular run, the random sample size varies from the specified size by more than the given margin.

**Response:** Either increase the sample margin or use exact mode sampling and submit the query again.

---

**RBA1501F**     **Failed to create message queues.**  
**Operating System error number**  
***number***

**Cause:** An operating-system error occurred.

**Response:** Check for lack of IPC resources on the machine.

---

**RBA1502E**     **Failed to create message queues.**  
**Internal error number *number***

**Cause:** An error occurred while creating a message queue.

**Response:** Check for lack of IPC resources on the machine. If resources are sufficient, report the error, including the error number, to Customer Support.

---

**RBA1503E**     **Message queue operation on *qid***  
***msgid* failed with *errno* *errno*.**

**Cause:** An error occurred while trying to send or receive on a message queue.

**Response:** This error indicates an unexpected error while trying to send or receive a message on a message queue. Check for lack of IPC resources on the machine. If resources are sufficient, report the error, including the error number, to Customer Support.

---

**RBA1504F**     **Fatal message queue operation on**  
***qid* *msgid* with *errno* *errno*.**

**Cause:** An error occurred during a message-queue send or receive system call.

**Response:** This error indicates an unexpected error during `msgsnd` or `msgrcv` calls. Review the operating-system documentation for an explanation associated with the error number returned.

---

**RBS1505S**     **Switching to full index scan mode**  
**for TARGET index *idxname*.**

**Cause:** Full statistic messages have been enabled. This message indicates that due to a high number of qualifying values, the system is switching its processing and is going to scan an entire TARGET index rather than probing multiple times into the index. This functionality is currently used only by the TargetJoin operator.

---

**RBA1506F**     **The maximum limit of open file**  
**descriptors has been reached.**

**Cause:** There are several possible causes for this problem: too many spill file directories; a low file descriptors limit; or, a scan operation on a large table with many PSUs. This error occurs only on UNIX systems.

**Response:** Increase file descriptors limit with the `ulimit` or `unlimit` command. The exact command depends on the operating system.

---

**RBS1507S**     **Rejecting TARGETjoin choice due**  
**to excessive memory**  
**consumption.**

**Cause:** Full statistic messages have been enabled. This message indicates that a TARGETjoin plan choice was rejected because of the projected excessive amounts of virtual



memory that the plan would require during query evaluation.

---

**RBS1520E    Sample Clause cannot be used with *name* table or view.**

**Cause:** Sample clause can be used only with an ordinary base table, a temp table or a sub-select. It cannot be used on a view, system table, model table, or in a precomputed view

**Response:** The table or view should be used without the sample clause.

---

**RBS1521E    Invalid value specified for sample size.**

**Cause:** The size parameter for sample clause should be between 0 and 100 percent or for Count, it should be greater than 0.

**Response:** Use valid values for sample size. If size is a count quantity, then it should be greater than 0. If size is a percentile quantity than it should be between 0 and 100.

---

**RBS1522E    Sample Clause: Invalid seed value specified.**

**Cause:** The seed value has to be a positive value.

**Response:** Use valid values for seed.

---

**RBS1523E    Sample Clause: Cannot be used in this statement.**

**Cause:** Sample clause has been used in statements other than Select or Insert.

**Response:** Remove the sample clause from the statement.

---

**RBS1524E    Sample Clause: 'Block' option can be used only with base tables.**

**Cause:** Sample clause's Block option has been used on a source other than a base table.

**Response:** Remove the Block option from the statement.

---

**RBS1525E    Sample Clause: 'Exact' option can be used only with base tables.**

**Cause:** Sample clause's Exact option has been used on a source other than a base table.

**Response:** Remove the Exact option from the sample clause.

---

**RBS1526E    Sample Clause: 'Count' option can only be used with base tables.**

**Cause:** Sample clause's Count option has been used on a source other than a base table.

**Response:** Remove the Count option from the sample clause.

---

**RBS1527E    Sample Clause: It can only be used in a SELECT or INSERT statement.**

**Cause:** Sample clause has probably been used in an UPDATE or DELETE statement.

**Response:** Sample clause cannot be used in the current statement. Remove the sample clause and submit the statement again.

---

**RBS1600F    Query failed because shared memory could not be allocated or attached.**

**Cause:** The query failed because it tried to use parallelism, but it was not possible to allocate or map sufficient shared memory. Typically, this problem occurs because the available shared memory resources are insufficient. On many systems, these resources can be increased by altering the kernel tuning parameters.

**Response:** Ask your warehouse administrator to review and adjust the kernel parameters for shared memory.

---

**RBS1601E**    **The number of column names in a derived column list in a table reference must be equal to the number of columns in the table. Expected *number* column names, but found *number*.**

**Cause:** A query contained a derived column list in a table reference (either a table name or a derived table), and the number of columns in the list did not match the number of columns in the table.

**Response:** Add or remove columns as necessary so that the number of columns in the derived column list matches the number of columns in the table.

---

**RBS1602E**    **The table *table\_name* has more than one column named *column\_name*.**

**Cause:** The query contained a joined table that contained two or more columns with the same name, and a qualified reference was made to the joined table.

**Response:** Change the names of the columns in the joined table either by using column aliases to change the names of the individual tables' columns or by using a derived column list.

---

**RBS1603E**    **A derived column list contained duplicate declarations for the column *column\_name*.**

**Cause:** The query contained a query expression with a derived column list that contained duplicate declarations for the column indicated in the error message.

**Response:** Change the derived column list so that it does not contain duplicate names.

---

**RBS1604E**    **The column named *column\_name* in a named-columns or natural join is found more than once in a joined table.**

**Cause:** The query contained a query expression with a named-columns or natural join, and one

of the tables participating in the join had duplicate column names. This situation can occur only when the join in question is joining one or more results of other joins.

**Response:** Either add column aliases to the input joins, or add derived column lists to the join expressions.

---

**RBS1605E**    **The column named *column\_name* is not found in one of the joined tables.**

**Cause:** The query contained a named-columns qualified join, and the column named *column\_name* was not found in one of the tables.

**Response:** Ensure that both tables have a column with the given name.

---

**RBS1606E**    **The column named *column\_name* is not found in either of the joined tables.**

**Cause:** The query contained a qualified join with an ON clause. The column named in the message was not found in either table being joined.

**Response:** Correct the column name and resubmit the query.

---

**RBS1607E**    **The reference to *column\_name* is ambiguous.**

**Cause:** The query contained a qualified join with an ON clause, and the column indicated in the message was found more than once in the tables being joined.

**Response:** Correct the column name and resubmit the query.

---

**RBS1608E**    **The table *table\_name* is not a table participating in the join.**

**Cause:** The query contained a qualified join with an ON clause, and the table indicated was present in the FROM clause, but did not participate in the join containing the ON clause.

**Response:** Correct the naming problem and resubmit the query.

---

**RBS1609E     An outer join search condition does not compare values from two tables.**

**Cause:** An outer join search condition in an ON clause must consist of equality predicates comparing values from two tables in the outer join, and multiple predicates must be related by a logical AND operator.

**Response:** Correct the search condition and resubmit the query.

---

**RBS1610E     An outer join search condition contains predicates related by a logical OR.**

**Cause:** An outer join search condition in an ON clause must consist of equality predicates comparing values from two tables in the outer join, and multiple predicates must be related by a logical AND operator.

**Response:** Correct the search condition and resubmit the query.

---

**RBS1611E     An outer join search condition contains a non-equality predicate.**

**Cause:** An outer join search condition in an ON clause must consist of equality predicates comparing values from two tables in the outer join, and multiple predicates must be related by a logical AND operator.

**Response:** Correct the search condition and resubmit the query.

---

**RBS1612E     The query requires a cross join, but the cross join option is not enabled.**

**Cause:** This query requires cross-join processing, either because it must compute the Cartesian product of the tables or because it is a non-equijoin that lacks an index on one of the joining columns.

**Response:** To enable cross-join processing, set

the OPTION CROSS\_JOIN parameter to ON, and resubmit the query.

---

**RBS1613E     The key of a TARGET index cannot contain more than one column.**

**Cause:** More than one column name was specified for the key of a TARGET index. The key for a TARGET index must be a single column.

**Response:** Remove all but one column name from the specification of the index key.

---

**RBL1614E     Offline load terminated because INDEX\_TEMPSPACE MAXSPILLSIZE has been exceeded. Table *table\_name*.**

**Cause:** A LOAD operation into an offline segment exceeded the INDEX\_TEMPSPACE MAXSPILLSIZE constraint.

**Response:** Increase the INDEX\_TEMPSPACE MAXSPILLSIZE and rerun the LOAD operation.

---

**RBS1615E     A column in the select list may be referenced at most once in a RESET BY specification.**

**Cause:** A complex RESET <RISQL reference list> BY clause contained more than one reference to the same select list column in the RISQL reference list.

**Response:** Remove duplicate references from all RISQL references in the RESET BY specification.

---

**RBS1616E     Views may not contain an ORDER BY clause.**

**Cause:** A query expression in a CREATE VIEW statement contained an ORDER BY clause. ORDER BY clauses are not allowed in query expressions in CREATE VIEW statements.

**Response:** Remove the ORDER BY clause from the query expression.

---

**RBS1617E      Referential integrity is violated  
for the proposed constraint.**

**Cause:** At least one row in the referencing table has a foreign key value that has no corresponding primary key value in the referenced table.

**Response:** Referential integrity must exist before the constraint can be added. Either the offending row(s) must be dropped from the referencing table or the corresponding rows must be added to the referenced table before the constraint can be added.

---

**RBS1618E      No B-tree index exists on the  
primary key of the referenced  
table**

**Cause:** Referential integrity cannot be checked unless a B-TREE index exists on the primary key of the referenced table.

**Response:** Create a B-TREE index on the primary key of the referenced table before adding the constraint.

---

**RBS1619E      Feature is not supported in  
current version of Red Brick  
Warehouse: 'string'.**

**Cause:** This version of Red Brick Warehouse does not support the indicated feature, which is required to process the statement submitted.

**Response:** Contact the warehouse administrator to determine whether you are using the current version of Red Brick Warehouse, and, if not, whether the most current version supports this feature. If the desired feature is supported in a more current version, consider upgrading to the more recent version. Also consider whether you can accomplish the task without the feature. If you believe this message was received in error, contact Customer Support.

---

**RBS1620E      A referential integrity cycle would  
be introduced by the new  
constraint.**

**Cause:** Referential integrity cycles are not allowed in Red Brick Warehouse. A referential integrity cycle is created when tables contain cyclic foreign key references. For example, if table A contains a foreign key reference to table B, table B contains a foreign key reference to table C, and table C contains a foreign key reference to table A, this schema constitutes a referential integrity cycle. You cannot alter a table by adding a foreign key constraint that would create a referential integrity cycle.

**Response:** After you drop any constraint in the cycle, you can resubmit the ALTER TABLE statement.

---

**RBS1621E      Primary key constraint  
'constraint\_name' cannot be  
dropped.**

**Cause:** The constraint name provided for the DROP CONSTRAINT statement is a primary key constraint. Primary key constraints cannot be dropped.

---

**RBS1622E      One or more STAR indexes exist  
on constraint 'constraint\_name'.**

**Cause:** STAR indexes can be built only upon foreign key constraints. Therefore, a constraint cannot be dropped if a STAR index is built upon it.

**Response:** Drop any dependent STAR indexes before you drop the constraint.

---

**RBS1623E      Named constraint 'constraint\_name'  
does not exist for table  
'table\_name'.**

**Cause:** The constraint named in the ALTER TABLE ... DROP CONSTRAINT statement either does not exist or does not belong to the named table.

---

**RBS1624E**    **An ALTER TABLE RESUME was requested for an ALTER TABLE ADD CONSTRAINT operation on table 'table\_name'.**

**Cause:** The ALTER TABLE RESUME statement is valid only for ALTER TABLE ... ADD/DROP COLUMN.

**Response:** Use the RESET option for a failed ALTER TABLE ... ADD CONSTRAINT operation.

---

**RBS1625E**    **Possible data integrity error; row number *number* in segment '*segment\_name*' in table '*table\_name*' has been deleted.**

**Cause:** The query referenced a row that no longer exists. This situation indicates an inconsistency in the database. Possible causes are the use of the OVERRIDE REFCHK clause in an ALTER SEGMENT, DELETE, or TMU REORG statement, or an internal error in the server.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS1626E**    **CONCAT function result length *number* is greater than the maximum allowed length of *number*.**

**Cause:** The CONCAT function result length is the sum of the lengths of its arguments and it has exceeded the maximum length allowed for a string value.

**Response:** Correct the statement either by using SUBSTR on the arguments to remove extra characters or by providing fewer arguments to the CONCAT function.

---

**RBS1627E**    **OVERRIDE FULLINDEXCHECK may only be used with a data segment.**

**Cause:** The OVERRIDE FULLINDEXCHECK clause only applies to detaching or clearing a data segment, however it is being used with a segment that is not a data segment.

**Response:** Resubmit the statement without the

OVERRIDE FULLINDEXCHECK clause.

---

**RBS1628E**    **Outer joins that require cross joins are not supported.**

**Cause:** The OUTER JOIN operation is not supported when a CROSS JOIN is required to compute the outer join.

**Response:** Rewrite the outer join to eliminate the need for a cross join operation.

---

**RBS1629E**    **Subqueries in ON clause of outer joins are not supported.**

**Cause:** The ON clause of an outer join cannot contain subqueries.

**Response:** Rewrite the outer join to eliminate the need for a subquery in the ON clause.

---

**RBS1649E**    **Segment *segment* of index *index* is not directly associated with the table *table*.**

**Cause:** The index segment is not defined on the specified table.

**Response:** Correct and resubmit the command.

---

**RBA1650E**    **Cannot complete operation because index '*index\_name*' on table '*table\_name*' is invalid.**

**Cause:** A requested operation could not be completed because the indicated required index on the indicated table is marked "invalid".

**Response:** Perform a TMU REORG operation for the invalid index and then resubmit the request.

---

**RBS1651E**    **Argument of TYPENAME function may not be a dynamic parameter.**

**Cause:** A PREPARE statement contained a dynamic marker as the argument of a TYPENAME function.

**Response:** Remove the TYPENAME function and resubmit the statement.

---

**RBS1652E**    **Cannot insert or update *table\_name* because referenced table *table\_name* does not have a primary key index.**

**Cause:** An INSERT or UPDATE operation performs referential integrity by using the primary key index of the referenced tables. Although the primary key index is automatically created with the table, it can be explicitly dropped. If it were dropped, an INSERT or UPDATE operation on the referencing table would result in this error message.

**Response:** Create the primary key index on the referenced table and then resubmit the INSERT or UPDATE statement.

---

**RBA1653E**    **Unable to spill any more data into temporary space file '*file\_name*'. Current size *number* bytes (*number* rows).**

---

**RBS1654E**    **Cannot modify RBW\_SEGID, RBW\_SEGNAME or RBW\_ROWNUM columns in an INSERT or UPDATE statement.**

**Cause:** An INSERT or UPDATE statement referenced RBW\_SEGID, RBW\_SEGNAME or RBW\_ROWNUM as a column to be modified.

**Response:** Remove the reference to the RBW\_SEGID, RBW\_SEGNAME, or RBW\_ROWNUM column, and resubmit the statement.

---

**RBS1655E**    **Tables may not contain columns named RBW\_SEGID, RBW\_ROWNUM or RBW\_SEGNAME.**

**Cause:** A CREATE TABLE statement attempted to create a column named RBW\_SEGID, RBW\_ROWNUM or RBW\_SEGNAME. These names are reserved and cannot be used in user-defined tables.

**Response:** Use another column name and resubmit the statement.

---

**RBS1656E**    **Cannot execute join operation due to resource limitations.**

**Cause:** A join of two tables using the hash-join algorithm (HASH\_1\_1\_MATCH) could not be completed because of resource limitations.

**Response:** Increase the amount of resources available for the query and resubmit the query. Use a SET QUERY MEMORY LIMIT command to increase the amount of memory available for the query.

---

**RBS1657E**    **Outer joins may not be specified in the HAVING or WHEN clauses.**

**Cause:** An outer join predicate was found in a HAVING or WHEN clause.

**Response:** Remove the join specification from the appropriate clause and resubmit the query.

---

**RBS1658E**    **Outer joins in the WHERE clause may only join columns from views or base tables.**

**Cause:** An outer join predicate in a WHERE clause contained references to columns that were not columns from a view or a base table (or synonym of a base table).

**Response:** Remove or alter the offending predicate and resubmit the query.

---

**RBS1659E**    **Outer joins in the WHERE clause may only join tables that are not joined in the FROM clause.**

**Cause:** An outer join predicate in a WHERE clause joined tables in the FROM clause that were not themselves base tables or views. Joins of this type are not allowed.

**Response:** Remove or alter the offending predicate and resubmit the query.

---

**RBS1660E**    **The WHERE clause contains conflicting outer join predicates.**

**Cause:** An outer join predicate in a WHERE clause joined tables in conflicting ways. The WHERE clause contained both a left- and right-



outer join for the same two tables.

**Response:** Remove or alter the offending predicates and resubmit the query.

---

**RBA1661E    This utility must be run as UNIX user *name*.**

**Cause:** The current utility was run by a user other than the defined UNIX administration user (the "redbrick" user).

**Response:** Log in as the correct user and re-attempt the utility.

---

**RBA1662E    The WHERE clause uses a NOT operator on an outer join predicate.**

**Cause:** The operand of a NOT operator contains an outer join predicate in a WHERE clause.

**Response:** Remove or alter the offending predicate and resubmit the query.

---

**RBS1663E    Possible data integrity error; row number *number* in segment '*segment\_name*' in table '*table\_name*' references a missing row.**

**Cause:** A row to be deleted references a row that no longer exists, which indicates an inconsistency in the database. Possible causes are the use of the OVERRIDE REFCHECK clause in an ALTER SEGMENT, DELETE, or TMU REORG statement, or an internal error in the server.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS1664E    A query used in an INSERT statement may not contain BREAK BY.**

**Cause:** The BREAK BY clause was specified on the query that was used as the source of data for the INSERT statement.

**Response:** Correct the error and resubmit the command.

---

**RBS1665E    Cannot detach or clear data segment *segment\_name* because index segment *segment\_name* is not identically segmented.**

**Cause:** An ALTER SEGMENT ... DETACH/CLEAR OVERRIDE FULLINDEXCHECK ON SEGMENTS statement has been submitted. However, the range of the index segment specified is not identical to the data segment range. This DETACH/CLEAR operation is allowed only on data and index segments that have been identically segmented on the same segmenting column.

**Response:** Ensure that the indicated data and index segments are segmented on the same column and that the data and index segment ranges correspond, and then resubmit the command.

---

**RBS1666E    Cannot detach or clear data segment *segment\_name* because segment *segment\_name* does not belong to an index that is segmented by range.**

**Cause:** An ALTER SEGMENT ... DETACH/CLEAR OVERRIDE FULLINDEXCHECK ON SEGMENTS statement has been submitted. However, the indicated segment does not belong to an index that is segmented by range.

**Response:** Identify index segments that are segmented by range and resubmit the command with these segments in the OVERRIDE FULLINDEXCHECK ON SEGMENTS clause.

---

**RBS1667E    Cannot insert default value NULL into column *column\_name* of table *table\_name* because column cannot contain NULL.**

**Cause:** An attempt was made to insert a row into a table, but no value was specified for a column that has no default value and cannot contain NULL. The normal behavior is to insert NULL into a column that has no default value; if, however, the column cannot contain NULL, then this error is issued.



**Response:** Provide a valid value for this column and resubmit the command.

---

**RBS1668W Rows not updated due to disallowed row relocation: *number*.**

**Cause:** A multiple-segment table was referenced by a STAR index and an SQL UPDATE command attempted to move a row from one segment to another segment. This can happen when a table is segmented by values and the segmenting column is updated. Moving the data row would have invalidated the STAR index.

**Response:** Drop any STAR index that references the table to be updated. Alternatively, do not update the segmenting column with a value that would cause the data to move to a different segment.

---

**RBL1669W Row not updated due to disallowed row relocation: Table *table\_name* row *number*.**

**Cause:** A multiple-segment table was referenced by a STAR index and a load operation in UPDATE or MODIFY mode attempted to move a row from one segment to another segment. This can happen when a table is segmented by values and the segmenting column is updated. Moving the data row would have invalidated the STAR index.

**Response:** Drop any STAR index that references the table to be updated. Alternatively, do not update the segmenting column with a value that would cause the data to move to a different segment.

---

**RBS1670E The combined length of column name *name* and its data length *length* is greater than the limit of *limit*.**

**Cause:** Various internal model indexes use the concatenation of the model column name with the character value for that column. The combined length of this index key must not be greater than the limit specified in the message.

**Response:** Either shorten the column name or

the defined length of the character column so that the combined length is less than the limit.

---

**RBS1672W Invalid percentage (*number*): maximum percentage of non-block cache memory allocated to each bit vector sort must be in range 0 to 100.**

**Cause:** Option BIT\_VECTOR\_SORT\_PERCENT specified with incorrect value.

**Response:** Specify option with value in range 0 to 100.

---

**RBS1673E Query reached result buffer size and full action was set to abort.**

**Cause:** The SET RESULT FULL ACTION ABORT command was used in conjunction with the SET RESULT BUFFER <size> command to indicate that the server should abort when the client has fallen behind on retrieving data from the server. This prevents a paused or stalled client from holding resources in the database.

**Response:** Either increase the result buffer size or change the full action to pause.

---

**RBS1674E Cannot insert into table *table\_name* because there is no index on the primary key.**

**Cause:** The index on the primary key of the specified table has been dropped. The INSERT command requires that a B-TREE or STAR index be defined on the primary key of the table into which rows are being inserted.

**Response:** Issue a CREATE INDEX statement to define an index on the primary key columns of the designated table.

---

**RBS1675W Unable to open graph file.**

**Cause:** File open returned null file.

**Response:** Check authorization of executable, graph file directory, or existing graph file.

---

**RBR1676F Invalid port number in SERVER specification :***server\_spec*

**Cause:** The port number specified in the SERVER specification is invalid.

**Response:** Specify a valid port number and resubmit the command.

---

**RBR1677F rbw.config file not found in RB\_CONFIG dir** *dir\_name*

**Cause:** A configuration file was not found in RB\_CONFIG directory.

**Response:** Ensure the file exists in the directory referenced by \$RB\_CONFIG.

---

**RBR1678F Error getting host name. OS Error** *errno*

**Cause:** There was an error getting a host name for the machine.

**Response:** Contact the system administrator to ensure machine has a host name.

---

**RBS1679E UPDATE table\_name failed because the rows are too large to update.**

**Cause:** The rows in the table are too wide to update with the SQL UPDATE command.

**Response:** Create a smaller table by reducing the width of one or more columns.

---

**RBS1680E CREATE TABLE failed because the rows are too large to update.**

**Cause:** The rows in the table are too wide to update with the SQL UPDATE command.

**Response:** Create a smaller table by reducing the width of one or more columns.

---

**RBS1681I Reached rewrite-traversal limit during transitive closure.**

**Cause:** The expression was too complicated or the limit was too low to complete the transitive closure.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1682I Reached rewrite-traversal-inside-ORs limit during transitive closure.**

**Cause:** The expression was too complicated or the limit was too low to complete the transitive closure.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1683I Reached rewrites limit during transitive closure.**

**Cause:** The expression was too complicated or the limit was too low to complete the transitive closure.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1684I Reached rewrite-traversal limit during CNF conversion.**

**Cause:** The expression was too complicated or the limit was too low to complete the CNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1685I Reached rewrite-traversal-inside-ORs limit during CNF conversion.**

**Cause:** The expression was too complicated or the limit was too low to complete the CNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1686I      Reached rewrites limit during  
CNF conversion.**

**Cause:** The expression was too complicated or the limit was too low to complete the CNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1687I      Reached rewrite-traversal limit  
during DNF conversion.**

**Cause:** The expression was too complicated or the limit was too low to complete the DNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1688I      Reached rewrite-traversal-inside-  
ORs limit during DNF  
conversion.**

**Cause:** The expression was too complicated or the limit was too low to complete the DNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1689I      Reached rewrites limit during  
DNF conversion.**

**Cause:** The expression was too complicated or the limit was too low to complete the DNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1690I      Reached rewrite-traversal limit  
during expression-rewriting.**

**Cause:** The expression was too complicated or the limit was too low to complete the expression rewriting.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1691I      Reached rewrite-traversal-inside-  
ORs-limit during  
expression-rewriting.**

**Cause:** The expression was too complicated or the limit was too low to complete the expression rewriting.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1692I      Reached rewrites limit during  
expression-rewriting.**

**Cause:** The expression was too complicated or the limit was too low to complete the expression rewriting.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

---

**RBS1693E      Model column *name* exceeds  
maximum length of *len* bytes.**

**Cause:** The column name for a model column is too long.

**Response:** Shorten the name of the column and resubmit the command.

---

**RBS1694E      Cannot update the primary key of  
table *table\_name* because there is  
no index on the primary key.**

**Cause:** The index on the primary key of the specified table has been dropped. Updating the primary key of a table requires that a B-TREE or STAR index be defined on the primary key of that table.

**Response:** Issue a CREATE INDEX statement to define an index on the primary key columns of the designated table.

---

**RBS1695E**    **MAXROWS PER SEGMENT must be in the range 1 to 4,294,967,295.**

**Cause:** A value outside the valid range for MAXROWS PER SEGMENT was specified.

**Response:** Specify a value in the range 1 to 4,294,967,295 (inclusive) for MAXROWS PER SEGMENT.

---

**RBS1696E**    **Missing or invalid primary key index on table *table\_name*.**

**Cause:** Attempted an operation on a table that requires a primary key index on the table or referenced table, and the index is missing or invalid.

**Response:** Create, or drop and recreate, a primary key index on the given table.

---

**RBS1700S**    *string (ID: number) Dynamically scanning number of number segments.*

**Cause:** Informational statistics messages have been enabled with the SET STATS command. This particular message indicates that dynamic segment elimination took place and states how many of the table's segments were scanned.

**Response:** Run the EXPLAIN command on the query to get more information about the specified operator (ID:number).

---

**RBS1701S**    *string (ID: number) Dynamic segment elimination was done number times. Number of segments scanned: Max: number Min: number Average: number.*

**Cause:** Informational statistics messages have been enabled with the SET STATS command. This particular message indicates that dynamic segment elimination took place more than once in the same query and states the maximum, minimum, and average number of segments scanned.

**Response:** Run the EXPLAIN command on the query to get more information about the specified operator (ID:number).

---

**RBS1741E**    **Outer joins are not allowed in the WHERE clause of a DELETE statement.**

**Cause:** A DELETE statement was issued with at least one outer join specified in the WHERE clause. Outer joins, if needed for a DELETE, must be specified in the USING clause. They are not supported in the WHERE clause.

**Response:** Move all outer joins to the USING clause and resubmit the command.

---

**RBS1742E**    **Outer joins are not allowed in the WHERE clause of an UPDATE statement.**

**Cause:** An UPDATE statement was issued with at least one outer join specified in the WHERE clause. Outer joins, if needed for an UPDATE, must be specified in the FROM clause. They are not supported in the WHERE clause.

**Response:** Move all outer joins to the FROM clause and resubmit the command.

---

**RBS1743E**    **Illegal use of the DELETE table in an outer join.**

**Cause:** A DELETE statement was issued with an outer join specified in the USING clause and the target table of the DELETE statement participates in the outer join. The outer join may produce rows that do not exist in the target table and thus cannot be deleted.

The target table of a DELETE statement can participate in an outer join only if it is an inner table of the join. The target table cannot appear in the right hand table reference of a left outer join or in the left hand table reference of a right outer join. The target table cannot appear anywhere within a full outer join.

**Response:** Correct the error and resubmit the command.

---

**RBS1744E**    **Illegal use of the UPDATE table in an outer join.**

**Cause:** An UPDATE statement was issued with an outer join specified in the FROM clause and

the target table of the UPDATE statement participates in the outer join. The outer join may produce rows that do not exist in the target table and thus, cannot be updated.

The target table of an UPDATE statement can participate in an outer join only if it is an inner table of the join. The target table cannot appear in the right hand table reference of a left outer join or in the left hand table reference of a right outer join. The target table cannot appear anywhere within a full outer join.

**Response:** Correct the error and resubmit the command.

---

**RBA1800E**    **Locale value *locale\_string* contains an invalid language specification.**

**Cause:** The specified locale cannot be set due to an invalid or non-existent language. This could be caused by an invalid locale string or a missing or incorrect locale definition file.

**Response:** Correct the locale string. Locale strings have the format [language]\_[territory].[codeset]@[sort] and do not contain blanks. If the locale string is correct, notify the warehouse administrator about the improper system environment. Refer to the Installation and Configuration Guide for specifics on how to adjust the system environment to meet the NLS requirements.

---

**RBA1801E**    **Locale value *locale\_string* contains an invalid territory specification.**

**Cause:** The locale setting contains an invalid territory specification. Locale strings have the format [language]\_[territory].[codeset]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBA1802E**    **Locale value *locale\_string* contains an invalid code set specification.**

**Cause:** The locale setting contains an invalid code set specification. Locale strings have the format [language]\_[territory].[codeset]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBA1803E**    **Locale value *locale\_string* contains an invalid sort specification.**

**Cause:** The locale setting contains an invalid sort specification. Locale strings have the format [language]\_[territory].[codeset]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBL1804E**    **RADIX POINT '*string*' does not contain exactly one character.**

**Cause:** The RADIX POINT specification can only be a single character.

**Response:** Correct the error and submit the command again.

---

**RBL1805E**    **RADIX POINT '*character*' cannot be used as a SEPARATED BY character.**

**Cause:** The same character was specified in the RADIX POINT and SEPARATED BY specifications. If the SEPARATED BY specification consists of multiple characters, none of those characters is allowed to match the radix point.

**Response:** Submit the command again, using different radix-point and separator characters. If you are using a multi-character separator, make sure it does not contain the radix point.

---

**RBL1806E**    **SUBSTR arguments must be greater than zero.**

**Cause:** The SUBSTR function in the TMU takes two positive integers as arguments. The first argument indicates the starting position and the second indicates the maximum length of the string.

**Response:** Correct the error and resubmit the command.

---

**RBL1807E**    **Locale mismatch between database and restore input.**  
Database locale: *locale\_string*  
Restore input locale: *locale\_string*

**Cause:** An attempt was made to restore data from one locale into a database that has been created in a different locale.

**Response:** Restore the data into a database that has been created with the same locale.

---

**RBS1808W**    **Client locale *locale\_string* contains a sort specification that is incompatible with the database locale *locale\_string*. The client sort specification will be ignored.**

**Cause:** The sort specification in the client locale is different from the database sort specification and will be ignored.

**Response:** None necessary.

---

**RBA1809E**    **Only one single-byte character is allowed.**

**Cause:** A multi-byte character or a set of characters were specified where it is only acceptable to have one, single-byte character. Examples include the FILL and UNDERLINE characters.

**Response:** Use only one single-byte character for the character.

---

**RBS1810W**    **Expected format for datetime values '*string*'**

**Cause:** A datetime value did not match the expected format. This message will be followed by message 194 or 195, which will show the value that did not match the expected format. The characters in the format string have the following meaning:

%a Abbreviated weekday name

%A Full weekday name

%b Abbreviated month name

%B Full month name

%d Day of month as a decimal number (01-31)

%H Hour in 24-hour format (00-23)

%I Hour in 12-hour format (01-12)

%j Day of year as a decimal number (001-366)

%m Month as decimal number (01-12)

%M Minute as decimal number (00-59)

%p Current locale's A.M./P.M. indicator for 12 hour clock

%S Second as decimal number (00-59)

%U Week of year as decimal number, with Sunday as first day of week (00-51)

%w Weekday as decimal number (0-6; Sunday is 0)

%W Week of year as decimal number, with Monday as first day of week (00-51)

%y Year without century, as decimal number (00-99)

%Y Year with century, as decimal number

**Response:** Correct the value and resubmit the statement.

---

**RBL1811E**    **SUBSTR start position must be greater than zero.**

**Cause:** The SUBSTR function in the TMU takes two positive integers as arguments. The first argument indicates the starting position and the second indicates the maximum length of the string.

**Response:** Correct the error and resubmit the command.

---

**RBL1812E**    **SUBSTR length argument must be non-negative.**

**Cause:** The SUBSTR function in the TMU takes two positive integers as arguments. The first argument indicates the starting position and the second indicates the maximum length of the string.

**Response:** Correct the error and resubmit the command.



---

**RBA1899I**     **Database created using locale**  
*'locale\_name'.*

**Cause:** An empty database was created that will use the indicated locale for all database operations.

**Response:** None necessary.

---

**RBS1900E**     **Precomputed view definitions**  
**must use valid syntax.**

**Cause:** The precomputed view definition contains a syntax error. For the syntax definition of a precomputed view, refer to the SQL Reference Guide.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1901E**     **The query expression for the**  
**precomputed view is invalid.**

**Cause:** Query expressions used in precomputed views are restricted. For example, they cannot contain UNION, INTERSECT, or EXCEPT operators or HAVING or WHEN clauses or a SERIAL column. For the syntax definition of a precomputed view, refer to the SQL Reference Guide.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1902E**     **The FROM clause for the**  
**precomputed view is invalid.**

**Cause:** The FROM clause can only contain a list of base table names, synonym names, and aliases. System table names, view names, and precomputed view table names are not allowed.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1903E**     **The WHERE clause for the**  
**precomputed view is invalid.**

**Cause:** The WHERE clause contained predicates other than primary key/foreign key join predicates.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1904E**     **Precomputed views are not**  
**allowed on system tables.**

**Cause:** The SET command referenced a system table instead of a base table.

**Response:** Correct and resubmit the command.

---

**RBS1905E**     **The aggregate table does not exist**  
**or is invalid.**

**Cause:** The table listed in the USING clause either does not exist or is not a base table. Views, synonyms, system tables, and model tables are not allowed.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1906E**     **The aggregate table already has a**  
**precomputed view definition.**

**Cause:** The table listed in the USING clause already has a precomputed view definition. Each table can only have a single precomputed view definition.

**Response:** Supply a different table name in the USING clause and resubmit the statement.

---

**RBS1907E**     **Synonyms cannot be specified for**  
**the aggregate table.**

**Cause:** The table named in the USING clause is a synonym. Precomputed view data cannot be stored in synonyms.

**Response:** Use the base table name instead of the synonym and submit the restatement.

---

**RBS1908E**     **The view/table column mapping**  
**is invalid for the precomputed**  
**view.**

**Cause:** The number of columns in the view does not match the number of columns specified for the aggregate table.

**Response:** Use the same number of columns for



the view and in the precomputed view table column list and resubmit the statement.

---

**RBS1909E    A column name listed in the USING clause is invalid.**

**Cause:** Either a column name listed in the USING clause does not exist for the aggregate table, or else a valid column name was specified twice.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1910E    The select list contains an invalid expression.**

**Cause:** Expressions in the select list of a precomputed view definition must be grouping columns or aggregate expressions. Supported aggregate expressions are SUM(), COUNT(), MIN(), MAX(), and COUNT(DISTINCT()).

**Response:** Remove or modify the invalid expressions and resubmit the statement.

---

**RBS1911E    The HAVING clause is not allowed in a precomputed view definition.**

**Cause:** A query expression in a precomputed definition view cannot contain a HAVING clause.

**Response:** Remove the HAVING clause and resubmit the statement.

---

**RBS1912E    The WHEN clause is not allowed in a precomputed view definition.**

**Cause:** A query expression in a precomputed view definition cannot contain a WHEN clause.

**Response:** Remove the WHEN clause and resubmit the statement.

---

**RBS1913E    The FROM clause contains the table (or synonym for the table) listed in the USING clause.**

**Cause:** The table listed in the USING clause appears either directly or indirectly (as a synonym) in the FROM clause. The precomputed

view associated with a table cannot reference that table.

**Response:** Provide a different table name in the USING clause and resubmit the statement.

---

**RBS1914E    Hierarchy *name* already exists.**

**Cause:** Each hierarchy definition must have a unique hierarchy name. The specified hierarchy name conflicts with an existing hierarchy name.

**Response:** Provide a unique hierarchy name and resubmit the statement.

---

**RBS1915E    Table *name* does not exist.**

**Cause:** The named table in the hierarchy definition does not exist.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1916E    Column *colname* does not exist for table *tablename*.**

**Cause:** The named column does not exist in the table named in the hierarchy definition.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1917E    Constraint *colname* is not a valid foreign key constraint from table *tname1* to table *tname2*.**

**Cause:** The named constraint is not a foreign key of the table named in the FROM clause, or it is not related to the primary key of the table in the TO clause.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1918E    An explicit foreign key must be named from table *tname1* to table *tname2*.**

**Cause:** No foreign key constraint was defined in a hierarchy relationship, and multiple primary key/foreign key relationships exist between the two tables.

**Response:** Specify a foreign key constraint name in the ON clause of the CREATE HIERARCHY statement and resubmit the statement.

---

**RBS1919E**    **No foreign key to primary key relationship is defined from table *tname1* to table *tname2*.**

**Cause:** A foreign key to primary key relationship does not exist between the two tables listed in the hierarchy definition.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1920E**    **Hierarchy *name1* does not exist.**

**Cause:** The hierarchy to be dropped does not exist.

**Response:** Correct the hierarchy name and resubmit the statement.

---

**RBS1921E**    **Constraint *tname* cannot be dropped because hierarchy *hname* is defined on it.**

**Cause:** The constraint to be dropped had a hierarchy definition defined on it. A constraint cannot be dropped if any hierarchies are defined on it.

**Response:** Drop any hierarchies defined on the constraint and resubmit the statement.

---

**RBS1922I**    **Hierarchy *hname***

**Cause:** This message is always preceded by message number 672. For more information, refer to message 672. It is followed by message 674.

**Response:** Drop the hierarchy and resubmit the statement.

---

**RBS1923E**    **Table *tname* cannot be dropped because hierarchy *hname* is defined on it.**

**Cause:** The table to be dropped has a hierarchy defined on it or on one of its synonyms.

**Response:** Drop any hierarchies defined on the table and resubmit the statement.

---

**RBS1924E**    **Table *name1* is not a base table name.**

**Cause:** Hierarchies cannot be defined on views.

**Response:** Correct the hierarchy definition and resubmit the statement.

---

**RBS1925E**    **Hierarchy *name1* cannot be created because it would introduce a cyclical functional dependency.**

**Cause:** The proposed hierarchy would have created a cyclical functional dependency. For example, columns and tables already specified in the FROM and TO clauses of one hierarchy relationship cannot be used to specify a dependency in the opposite direction in another relationship.

**Response:** Correct the hierarchy definition and resubmit the statement.

---

**RBS1926E**    **The aggregate table appears in an existing precomputed view definition.**

**Cause:** The table listed in the USING clause cannot appear in the definition of any existing precomputed view.

**Response:** Supply a different table name in the USING clause and resubmit the statement.

---

**RBS1927E**    **View *viewname* is not an existing precomputed view.**

**Cause:** The view named in the statement does not exist or is not a precomputed view.

**Response:** Provide an existing precomputed view name and resubmit the statement.

---

**RBS1928W**    **Query was executed using one or more invalid precomputed views.**

**Cause:** Either a query was rewritten to use views that are marked invalid, or else the

Advisor cost analysis was made using views that are marked invalid.

---

**RBS1929E**    **Sample view *viewname* is not compatible with detail table *tablename***

**Cause:** Either the number of columns in the sample view was different from the number of columns in the detail table, or else their column types were different.

**Response:** Modify the sample view and resubmit the statement.

---

**RBS1930E**    **Datatypes of related columns in the view (*tname1.cname1*, datatype *dt1*) and table (*tname2.cname2*, datatype *dt2*) are not compatible.**

**Cause:** The datatype of the view column is not compatible with the datatype of its related table column. For example, a column of type INT cannot be related to a column of type CHARACTER.

**Response:** Provide compatible columns from the table in the USING clause and resubmit the statement.

---

**RBS1931W**    **Datatypes of related columns in the view (*tname1.cname1*, datatype *dt1*) and table (*tname2.cname2*, datatype *dt2*) might cause precision loss, overflow, or underflow.**

**Cause:** The columns in the view have more precision and/or range than the columns listed for the table in the USING clause. This could result in precision loss, overflow, or underflow.

**Response:** Provide compatible columns from the table in the USING clause and resubmit the statement.

---

**RBA1932W**    **The precomputed view *viewname* has been marked invalid.**

**Cause:** A table has been updated via an INSERT, DELETE, UPDATE, or load operation,

thus invalidating all the precomputed views defined on the table.

**Response:** Update the precomputed tables to match the new data in the detail table. After the precomputed tables have been updated to match the data in the detail table, you can then mark the precomputed views valid with either the ALTER VIEW <view\_name> SET VALID command or the ALTER TABLE <table\_name> SET PRECOMPUTED VIEWS VALID command.

---

**RBA1933I**    **Marking precomputed views invalid.**

**Cause:** A REORG statement has deleted rows from the table, which invalidates the precomputed views defined on the table being reorganized. This message indicates that REORG is trying to automatically mark the affected precomputed views invalid.

**Response:** None necessary.

---

**RBA1934W**    **Failed to invalidate all precomputed views.**

**Cause:** A REORG operation deleted rows from the table being reorganized, which invalidated all precomputed views defined on the table. However, an error occurred that prevented REORG from automatically marking all of the precomputed views invalid. The most likely error is that REORG was unable to obtain the necessary database locks.

**Response:** Mark all precomputed views invalid with the ALTER TABLE <table\_name> SET PRECOMPUTED VIEWS INVALID command. Alternatively, update all precomputed views, even if they are marked valid, to reflect the rows deleted from the detail table. Then mark all precomputed views valid with the ALTER TABLE <table\_name> SET PRECOMPUTED VIEWS VALID command.

---

**RBS1935E**    **A hierarchy cannot be created from the nullable column *tablename.colname*.**

**Cause:** Hierarchies cannot be defined from nullable columns.

**Response:** Correct and resubmit the hierarchy definition.

---

**RBS1936E**    **An invalid MAINTENANCE type was specified in the ALTER VIEW statement.**

**Cause:** An attempt to change the maintenance type for a precomputed view failed. The maintenance type must be ON, OFF, or REBUILD.

**Response:** Provide a valid maintenance type and resubmit the statement.

---

**RBS1937E**    **An invalid validity type was specified in the ALTER VIEW statement.**

**Cause:** An attempt to change the validity for a precomputed view failed. The validity type must be VALID or INVALID.

**Response:** Provide a valid validity type and resubmit the statement.

---

**RBS1938W**    **Precomputed view *viewname* will not be maintained with a rebuild plan because of a referencing STAR index.**

**Cause:** The statement causes the precomputed view to be maintained with a rebuild plan. However, the precomputed view cannot be maintained with a rebuild plan because a STAR index is referencing the associated table.

**Response:** None necessary.

---

**RBS1939W**    **Precomputed view *viewname* will not be maintained because a segment of the associated table is either offline or damaged.**

**Cause:** The precomputed view cannot be maintained because one or more of the segments of the associated table are either offline or damaged.

**Response:** Repair the segment (if damaged) and bring it online for automatic precomputed view maintenance.

---

**RBS1940W**    **Precomputed view *viewname* will not be maintained because of an unreferenced non-nullable column with no default value.**

**Cause:** The precomputed view cannot be maintained because one of the columns in the precomputed table is not referenced in the associated precomputed view, is non-nullable, and does not have a default value.

**Response:** Either define the column as nullable or associate a default value with the column for the precomputed view to be maintained.

---

**RBS1941W**    **Precomputed view *viewname* will not be maintained because a segment of the associated table that is stored on optical storage cannot be accessed.**

**Cause:** The precomputed view cannot be maintained because one or more of the segments of the associated table are on optical storage and the OPTICAL AVAILABILITY parameter is set to a value such that the segment cannot be accessed.

**Response:** Either ensure that no segments of the table are on optical storage or set the OPTICAL AVAILABILITY parameter so that the optical segment can be accessed.

---

**RBS1942E    The GROUP BY clause for the precomputed view is invalid.**

**Cause:** The GROUP BY clause can only contain a list of table columns. Column aliases and other expressions are not allowed.

**Response:** Correct and resubmit the SQL statement.

---

**RBS1943W    Datatypes of related columns in the view (*tname1.cname1*, datatype *dt1*) and table (*tname2.cname2*, datatype *dt2*) have different precision and scale. Incremental maintenance could produce incorrect results.**

**Cause:** The columns in the precomputed view have different precision and/or range than the columns listed for the table in the USING clause. This mismatch could result in different results for a direct query on the detail table and an equivalent query on the referenced aggregate table. Because the mismatched column is a GROUP BY column, incremental maintenance of the view could return incorrect results.

**Response:** Specify compatible columns in the USING clause and submit the statement again. Alternatively, turn off incremental maintenance for this view.

---

**RBS1944W    Datatypes of related columns in the view *tname1* and the corresponding aggregate tables have different precision and scale. Incremental maintenance might produce incorrect results.**

**Cause:** The columns in the precomputed view have different precision and/or range than the columns listed for the table in the USING clause. This mismatch could result in different results for a direct query on the detail table and an equivalent query on the referenced aggregate table. Because the mismatched column is a GROUP BY column, incremental maintenance of the view could return incorrect results.

**Response:** Specify compatible columns in the

USING clause and submit the statement again. Alternatively, turn off incremental maintenance for this view.

---

**RBS1950E    No Advisor log file is available to process this query.**

**Cause:** An attempt was made to query the Advisor log file.

**Response:** Enable Advisor query logging.

---

**RBS1951E    Only one predicate on column *colname* is allowed per query.**

**Cause:** When an Advisor system table is queried, some columns can have only a single predicate placed upon them. More than one predicate was provided on the column in this query.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1952E    WHERE clause expressions in queries against the Advisor system tables must be conjunctive.**

**Cause:** A query against an Advisor system table contained at least one disjunctive expression.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1953E    Insufficient authority to SELECT from Advisor system tables.**

**Cause:** The user who issued the SELECT statement did not have the required authority. To select data from an Advisor system table, a user must have ACCESS\_ADVISOR\_INFO authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS1954E**    **The WHERE clause constraint against column *column\_name* must be an equality constraint.**

**Cause:** The WHERE clause expression that referenced the column did not apply an equality constraint.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1955E**    **Column *column\_name* cannot appear in WHERE clause of an Advisor query.**

**Cause:** When an Advisor system table is queried, some columns cannot appear in the WHERE clause. The predicate in this query included one of these columns.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1956E**    **Advisor system table *table\_name* cannot appear in a query with another table.**

**Cause:** When an Advisor system table is queried, additional tables cannot be included in the same query. The Advisor query included more than one table.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1957E**    **One or more predicates in the Advisor query is invalid.**

**Cause:** When an Advisor system table is queried, only certain predicates are allowed. These predicates include an equality predicate on `DETAIL_TABLE_NAME` (which is required), an equality predicate on `START_DATE` and/or `END_DATE`, as well as some specific predicates available for each individual Advisor system table. One or more predicates in the query were invalid. For more information about querying these tables, refer to the IBM Red Brick Vista User's Guide.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1958E**    **Column *colname* cannot be equated to NULL.**

**Cause:** When an Advisor system table is queried, certain columns in the WHERE clause cannot be equated to NULL. These columns are `DETAIL_TABLE_NAME`, `START_DATE`, `END_DATE`, and `NAME`.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1959E**    **Table *name* does not exist or is not valid.**

**Cause:** When an Advisor system table is queried, the equality constraint on `DETAIL_TABLE_NAME` must equate to an existing table. Views, synonyms, system tables, and model tables are not allowed.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1960E**    **View *name* does not exist.**

**Cause:** When an Advisor system table is queried, the equality constraint on `SAMPLE_VIEW_NAME` must equate to an existing view name.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1961E**    **Column `DETAIL_TABLE_NAME` is not constrained.**

**Cause:** When an Advisor system table is queried, there must exist an equality predicate on the `DETAIL_TABLE_NAME` column in the WHERE clause. This query did not have an equality constraint on `DETAIL_TABLE_NAME`.

**Response:** Correct the Advisor query and resubmit the statement.

---

**RBS1962E**    **The Advisor cannot process queries that reference empty detail tables.**

**Cause:** The detail table referenced in the WHERE clause does not contain any rows.



**Response:** Load the detail table and its associated aggregate tables before you query the Advisor system tables.

---

**RBS1963E     START\_DATE must be less than or equal to END\_DATE.**

**Cause:** When an Advisor system table is queried, a query that constrains on both START\_DATE and END\_DATE must provide a START\_DATE that is less than or equal to the END\_DATE.

**Response:** Change or drop the START\_DATE or END\_DATE constraint and resubmit the statement.

---

**RBS1964E     Table creation date must be less than or equal to END\_DATE.**

**Cause:** The table specified in the Advisor query did not exist during the specified date range.

**Response:** Change or drop the START\_DATE or END\_DATE constraint and resubmit the statement.

---

**RBS1965E     The Advisor encountered a problem when querying the RBW\_PRECOMPVIEW\_CANDIDATES table. The following file contains information relevant to the failure: filename**

**Cause:** When querying the RBW\_PRECOMPVIEW\_CANDIDATES table, the Advisor may run one or more auxiliary queries to determine the relative benefits of precomputed views. The Advisor encountered problems while processing the output of one of these auxiliary queries.

**Response:** Examine the identified file to determine why the auxiliary query failed. If possible, correct the problem and resubmit the statement. Otherwise, save the auxiliary file and contact Customer Support.

---

**RBS1966I     The Advisor encountered a problem when querying the RBW\_PRECOMPVIEW\_CANDIDATES table. The following file contains information relevant to the failure: filename**

**Cause:** When querying the RBW\_PRECOMPVIEW\_CANDIDATES table, the Advisor may run one or more auxiliary queries to determine the relative benefits of precomputed views. The Advisor encountered problems while processing the output of one of these auxiliary queries. The error that occurred is displayed immediately following this message.

**Response:** Examine the following message and identified file to determine why the auxiliary query failed. If possible, correct the problem and resubmit the statement. Otherwise, save the auxiliary file and contact Customer Support.

---

**RBS1967W     Precomputed view maintenance for viewname succeeded and it has been marked valid.**

**Cause:** The view maintenance operation for the named view succeeded and the view has been marked valid.

**Response:** None necessary.

---

**RBS1968W     Precomputed view maintenance for viewname failed and it has been marked invalid.**

**Cause:** The view maintenance operation for the named view failed and the view has been marked invalid.

**Response:** The precomputed view must be recomputed and marked valid.

---

**RBS1969S     Precomputed view maintenance for viewname caused rows to be inserted into tablename. Rows inserted: number.**

**Cause:** Precomputed view maintenance for the named precomputed view caused rows to be



inserted into the associated precomputed table.

**Response:** None necessary.

---

**RBS1970S**    **Precomputed view maintenance for *viewname* caused rows to be deleted from *tablename*. Rows deleted: *number*.**

**Cause:** Precomputed view maintenance for the named precomputed view caused rows to be deleted from the associated precomputed table.

**Response:** None necessary.

---

**RBS1971S**    **Precomputed view maintenance for *viewname* caused rows to be updated in *tablename*. Rows updated: *number*.**

**Cause:** Precomputed view maintenance for the named precomputed view caused rows to be updated in the associated precomputed table.

**Response:** None necessary.

---

**RBS1972W**    **Precomputed view maintenance for *viewname* succeeded, but view validation failed.**

**Cause:** The view maintenance operation for the named view succeeded, but the system was unable to validate the view.

**Response:** If no further updates have been performed, set the view to a valid state.

---

**RBS1973E**    **Precomputed view maintenance for *viewname* failed.**

**Cause:** The view maintenance operation for the named view failed, so the transaction has been rolled back.

**Response:** Invalidate the named precomputed view and resubmit the statement. The precomputed view must be recomputed and marked valid.

---

**RBS1974E**    **The precomputed view *viewname* is invalid.**

**Cause:** The precomputed view became invalid before execution, but must be valid for Vista query rewrite or aggregate maintenance.

**Response:** Ensure that the precomputed view is valid and resubmit the statement.

---

**RBS1975I**    **The precomputed view *viewname* is invalid and could not be used for aggregate maintenance.**

**Cause:** The precomputed view became invalid and could not be used for aggregate maintenance.

**Response:** Check to see which precomputed views were not maintained.

---

**RBS1976S**    **Precomputed view *viewname* maintained by incremental maintenance.**

**Cause:** The view maintenance operation for the named view was performed using incremental maintenance.

**Response:** None necessary.

---

**RBS1977S**    **Precomputed view *viewname* maintained by rebuilding it from *parentname*.**

**Cause:** The view maintenance operation for the named view was performed by rebuilding it from the identified detail table or precomputed view.

**Response:** None necessary.

---

**RBL1978E**    **Interval commit TMU operation cannot proceed because it does not have all the required locks for aggregate maintenance.**

**Cause:** TMU does not have all the locks requested by the server for aggregate maintenance.

**Response:** Resubmit the statement.

---

**RBS1979W**    **View maintenance for *viewname* caused rows to be deleted from *tablename* in override refcheck mode.**

**Cause:** The view maintenance operation caused rows to be deleted from the associated precomputed table. This deletion was performed in override refcheck mode.

**Response:** None necessary.

---

**RBS1980E**    **View maintenance could not be performed for the TMU LOAD or REORG operation.**

**Cause:** The server was unable to perform precomputed view maintenance for the TMU LOAD or REORG operation. This can happen if views were invalidated between TMU and server processing, or if a REORG operation included precomputed views that could not be maintained.

**Response:** If this is a REORG operation, remove the offending precomputed views from the REORG list and resubmit the statement. If this is not a REORG operation, resubmit the statement.

---

**RBA1981W**    **The precomputed view *viewname* has been marked valid.**

**Cause:** An operation was performed that caused the precomputed view to be marked valid. This could happen for an INSERT, DELETE, or UPDATE operation that did not change any table data.

**Response:** None necessary.

---

**RBS1982W**    **Data cannot be inserted or updated into the table because the maximum number of rows per segment has been reached*string***

**Cause:** The number of rows in the segment into which this row is to be inserted or updated is equal to the table's MAXROWS PER SEGMENT. No more rows can be inserted or updated into the table until the MAXROWS PER SEGMENT value is changed. If the row contains VARCHAR

columns, the actual number of rows in the table may be less than MAXROWS PER SEGMENT. If there is a large difference between the number of rows and MAXROWS PER SEGMENT, the FILLFACTORS for VARCHAR columns have been set wrongly.

**Response:** ALTER the MAXROWS PER SEGMENT value for the table. If there is a big difference between the number of rows in the segment and MAXROWS PER SEGMENT, refer to the Warehouse Administrator's Guide for information on setting FILLFACTOR for VARCHAR columns.

---

**RBS1983W**    **Data cannot be inserted into the table because segment *segment\_name* is full or the filesystem is full*string***

**Cause:** During an SQL INSERT or TMU LOAD operation, all space available for new data was used.

**Response:** If the segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the filesystem is full, increase disk space or delete unnecessary files.

---

**RBS1984W**    **Data cannot be inserted into the table because an index segment *segment\_name* is full or the filesystem is full*string***

**Cause:** During an SQL INSERT or LOAD operation, the space available for indexes was exhausted.

**Response:** If the segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the filesystem is full, increase disk space or delete unnecessary files.

---

**RBS1985W**    **Cannot complete operation because table *'table\_name'* has an invalid index.**

**Cause:** A requested operation could not be completed because a required index on the indicated table is marked "invalid".

**Response:** Examine the RBW\_INDEXES system table to determine which index or indexes are invalid. Perform a REORG operation for each invalid index and then retry the operation.

---

**RBS1986W**    **Temporary space location *'path\_name'* is not writable.**

---

**RBS1987W**    **Temporary space location *'path\_name'* is not a directory.**

---

**RBS1988W**    **Unable to spill any more data into temporary space file *'file\_name'*.**

---

**RBS1989W**    **Possible data integrity error; row number *number* in segment *'segment\_name'* in table *'table\_name'* references a missing row.**

**Cause:** A row to be deleted references a row that no longer exists, which indicates an inconsistency in the database. Possible causes are the use of the OVERRIDE REFCHK clause in an ALTER SEGMENT, DELETE, or TMU REORG statement or an internal error in the server.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS1990W**    **Missing or invalid primary key index on table *table\_name*.**

**Cause:** Attempted an operation on a table that requires a primary key index on the table or referenced table, and the index is missing or invalid.

**Response:** Create, or drop and recreate, a primary key index on the given table.

---

**RBS1991W**    **Possible data integrity error; row number *number* in segment *'segment\_name'* in table *'table\_name'* has been deleted.**

**Cause:** The query referenced a row that no longer exists. This situation indicates an inconsistency in the database. Possible causes are the use of the OVERRIDE REFCHK clause in an ALTER SEGMENT, DELETE, or TMU REORG statement, or an internal error in the server.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS1992W**    **UPDATE operation tried to move data to segment *segment\_name*, which is full.**

**Cause:** During an UPDATE operation on a table, the segment ranges required that a row be moved from one segment to another segment. However, the new segment did not have enough space for the row. The operation might have partially updated the table.

**Response:** Use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. Because some data might have been updated with the last UPDATE statement, to avoid updating the same rows twice, think carefully before resubmitting the UPDATE statement.

---

**RBS1993W**    **Column in INSERT that is declared NOT NULL must have a source that is not NULL.**

---

**RBS1994W**    **Precomputed view maintenance for *viewname* failed due to the following condition:**

**Cause:** Precomputed view maintenance failed due to problems inserting into, updating, or deleting from the associated aggregate table. The error that occurred is displayed immediately following this message.

**Response:** Resolve the problem identified by the following message(s), and if appropriate,

perform a TMU REORG operation for the precomputed view.

---

**RBA1995W**    **Precomputed view maintenance for *viewname* is not supported. The view definition uses a synonym for a detail table.**

**Cause:** Precomputed view maintenance for views that use synonyms for detail tables is not supported.

**Response:** Resolve the problem by replacing the synonym with a base table name before marking the view valid for automatic maintenance.

---

**RBS1996E**    **Constraint *tname* cannot be dropped because it is implicitly implied by the precomputed view *vname*.**

**Cause:** A constraint cannot be dropped if any precomputed view implicitly implies it.

**Response:** Drop any precomputed views implicitly implying the constraint and submit the statement again.

---

**RBS1997E**    **Synonyms cannot be specified for the detail table of a precomputed view.**

**Cause:** The detail table of the precomputed view is a synonym.

**Response:** Use the base table name instead of the synonym and submit the statement again.

---

**RBS1998E**    **The precomputed view *viewname* was marked valid during execution of the SQL statement or TMU operation.**

**Cause:** A precomputed view was invalid when the statement was submitted but was marked valid before the statement could be completed. Precomputed views must remain in the same state during execution in order for maintenance, and the update that made maintenance necessary, to succeed.

**Response:** Execute the SQL statement or TMU operation again.

---

**RBA1999W**    **Incremental maintenance of precomputed views has been disabled due to insufficient temporary space.**

**Cause:** The set of changes made to the detail table is stored in order to perform incremental maintenance for precomputed views. The temporary space for storing this set of changes has been exhausted. Because this set of changes could not be stored, incremental maintenance of precomputed views has been disabled. Precomputed views that could otherwise have been maintained incrementally will now be marked invalid.

**Response:** Perform a REORG operation to rebuild views that were marked invalid.

---

**RBA2000E**    **This feature is not supported on this release of Red Brick Warehouse.**

**Cause:** An attempt was made to use a feature that is not supported on this release of Red Brick Warehouse.

**Response:** Do not use this feature.

---

**RBA2001E**    **Current database size (*size* kilobytes) exceeds the maximum allowable size.**

**Cause:** Your license does not permit a database larger than 5 gigabytes (5242880 kilobytes).

**Response:** Notify the warehouse administrator. Upgrade your license to allow a larger database.

---

**RBS2005I**    **Red Brick Warehouse listener daemon version *version* starting. *RB\_HOST* is *RB\_HOST*. *RB\_CONFIG* is *RB\_CONFIG*.**

**Cause:** Red Brick Warehouse listener daemon started.

**Response:** None necessary.

---

**RBS2006E**     **Master socket not specified for Red Brick Warehouse listener daemon.**

**Cause:** The rbw.config file is missing a master socket specification or it contains an invalid master socket specification.

**Response:** Specify correct master socket specification.

---

**RBS2007E**     **Invalid master socket specification in rbw.config file: (*spec*).**

**Cause:** The rbw.config file contains an invalid master socket specification.

**Response:** Specify correct master socket specification.

---

**RBS2008E**     **Maximum number of master socket specifications reached: (*specno*).**

**Cause:** The rbw.config file contains too many master socket specifications.

**Response:** Reduce the number of master socket specifications.

---

**RBS2009E**     **Communication Layer - Out of memory. OS Error Code = *error***

**Cause:** Out of memory.

**Response:** Look at operating-system error code.

---

**RBS2010E**     **Communication Layer - Get protocol by name failed. OS Error Code = *error***

**Cause:** Get protocol by name failed.

**Response:** Look at operating-system error code.

---

**RBS2011E**     **Communication Layer - Port in use. OS Error Code = *error***

**Cause:** The specified port is in use.

**Response:** Look at operating-system error code.

---

**RBS2012E**     **Communication Layer - Create socket failed. OS Error Code = *error***

**Cause:** Create socket failed.

**Response:** Look at operating-system error code.

---

**RBS2013E**     **Communication Layer - Bind to socket failed. OS Error Code = *error***

**Cause:** Bind to socket failed.

**Response:** Look at operating-system error code.

---

**RBS2014E**     **Communication Layer - Listen on socket failed. OS Error Code = *error***

**Cause:** Listen on socket failed.

**Response:** Look at operating-system error code.

---

**RBS2015E**     **Communication Layer - Select on socket failed. OS Error Code = *error***

**Cause:** Select on socket failed.

**Response:** Look at operating-system error code.

---

**RBS2016E**     **Communication Layer - Receive on socket failed. OS Error Code = *error***

**Cause:** Receive on socket failed.

**Response:** Look at operating-system error code.

---

**RBS2017E**     **Communication Layer - Accept on socket failed. OS Error Code = *error***

**Cause:** Accept on socket failed.

**Response:** Look at operating-system error code.

---

**RBS2018E**    **Communication Layer - Write on socket failed. OS Error Code =**  
*error*

**Cause:** Write on socket failed.

**Response:** Look at operating-system error code.

---

**RBS2019E**    **Communication Layer - Set socket options failed. OS Error Code =**  
*error*

**Cause:** Set socket options failed.

**Response:** Look at operating-system error code.

---

**RBS2020E**    **Communication Layer - Internal Logic error. OS Error Code =** *error*

**Cause:** Internal logic error.

**Response:** Look at operating-system error code.

---

**RBS2021E**    **Error on reading OOB data from socket. OS Error Code =** *error*

**Cause:** Receive of OOB data failed.

**Response:** Look at operating-system error code.

---

**RBS2023E**    **No RBWCONC threads were started.**

**Cause:** Internal logic error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS2024E**    **Could not find slot to register thread for Control-C notification.**

**Cause:** Internal logic error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS2025E**    **Could not register thread for Control-C notification.**

**Cause:** Internal logic error.

**Response:** Record what you were doing and contact Customer Support.

---

---

**RBS2026E**    **Could not find thread in thread table.**

**Cause:** Internal logic error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS2027I**    **Listening on TCP , HOST =**  
*HOST, PORT = PORT.*

**Cause:** Started listening at above network point.

**Response:** None necessary.

---

**RBS2028I**    **Listening on SPX, SEGMENT =**  
*SEGMENT, MAC ADDRESS =*  
*MAC, PORT = PORT.*

**Cause:** Started listening at above network point.

**Response:** None necessary.

---

**RBS2029I**    **Started RBWCONC thread.**  
**Thread Id is** *ID*

**Cause:** RBWCONC thread started.

**Response:** None necessary.

---

**RBS2030I**    **Could not send connection-fail ack to client.**

**Cause:** RBWLSNR thread could not create RBWSVR thread to service client connection. Tried to send connection-fail acknowledgment and failed. Check the MAX\_SERVERS parameter in the rbw.config file.

**Response:** None necessary.

---

**RBS2031I**    **Could not start RBWSVR thread to service client.**

**Cause:** RBWLSNR thread could not create RBWSVR thread to service client connection.

**Response:** Record what you were doing and contact Customer Support.

---



---

**RBS2032I**      **Could not start TMU Driver process to service TMU client request.**

**Cause:** RBWLSNR thread could not create TMU Driver process to service TMU client connection.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS2400E**      **UNBOUNDED PRECEDING is not a valid upper boundary for a window frame.**

**Cause:** When a window frame is specified for an OLAP function, UNBOUNDED PRECEDING can only be specified as the lower (starting) boundary.

---

**RBS2401E**      **UNBOUNDED FOLLOWING is not a valid lower boundary for a window frame.**

**Cause:** When a window frame is specified for an OLAP function, UNBOUNDED FOLLOWING can only be specified as the upper (ending) boundary.

---

**RBS2402E**      **When the lower boundary of a window frame specifies FOLLOWING, the upper boundary cannot specify PRECEDING or CURRENT ROW.**

**Cause:** When the lower (starting) boundary of a window frame for an OLAP function specifies FOLLOWING, the upper (ending) boundary cannot specify PRECEDING or CURRENT ROW. However, both boundaries can specify FOLLOWING if the upper boundary specifies a higher constant than the lower boundary.

---

**RBS2403E**      **When the lower boundary for a window frame specifies CURRENT ROW, the upper boundary cannot specify PRECEDING.**

**Cause:** When the lower (starting) boundary of a window frame for an OLAP function specifies

CURRENT ROW, the upper (ending) boundary cannot specify PRECEDING. The upper boundary must specify FOLLOWING or CURRENT ROW.

---

**RBA2404E**      **SUPPRESS BY column must not reference an OLAP function.**

---

**RBS2405E**      **Only unsigned integers are allowed in the PRECEDING/FOLLOWING clause for OLAP functions.**

---

**RBS2406E**      **OLAP functions and RISQL display functions cannot appear in the same query.**

---

**RBS2407E**      **The ORDER BY clause is required for the distribution and ranking family of OLAP functions.**

**Cause:** The ORDER BY clause is required inside the OVER clause for the distribution and ranking family of OLAP functions. This clause specifies the column(s) over which the rankings are computed.

**Response:** Specify at least one ordering column for each distribution or ranking function.

---

**RBS2408E**      **An OLAP function or a RISQL display function cannot be an argument to another OLAP function.**

**Cause:** An expression in the query contained an OLAP function or a RISQL display function as an argument to another OLAP function, or as an argument to an aggregation function. This kind of expression is not allowed.

---

**RBS2409E**      **OLAP ranking, distribution, and numbering functions cannot have a window frame clause.**

**Cause:** OLAP ranking, distribution, and numbering functions, such as RANK, DENSE\_RANK, NTILE, ROW\_NUMBER, CUME\_DIST, and PERCENT\_RANK, cannot be



computed over a window frame (ROWS or RANGE specification).

**Response:** Remove the ROWS or RANGE specification from each ranking, distribution, or numbering function.

---

**RBS2410E**     **For a logical window frame definition, only one ORDER BY column is allowed.**

**Cause:** For a logical window frame definition, specified with the RANGE keyword, only one ORDER BY column is allowed in the OVER clause.

---

**RBS2411E**     **Invalid OLAP function '*function\_name*'.**

**Cause:** The specified function was called with the OVER clause, but it is not an OLAP function.

**Response:** Check the usage rules for the function in the SQL Reference Guide. Correct the syntax and submit the query again.

---

**RBS2412E**     **For a logical window frame definition, the ORDER BY column must have a numeric datatype.**

**Cause:** For a logical window frame definition, specified with the RANGE keyword, the ORDER BY column in the OVER clause must have a numeric datatype.

---

**RBS2413E**     **OLAP functions cannot be used as arguments of RISQL display functions or aggregation functions.**

**Cause:** An expression in the query contained an OLAP function as an argument to a RISQL display function or an aggregation function. This kind of expression is not allowed.

---

**RBA2414E**     **Argument of *function\_name* must be an integer literal greater than zero.**

**Cause:** The specified function supplied a value for the argument that was not a positive integer literal.

**Response:** Replace the argument to the function with an integer literal greater than zero and submit the command again.

---

**RBA2415E**     **DISTINCT keyword cannot be used with OLAP ORDER BY clause.**

**Cause:** OLAP aggregation functions cannot contain both the DISTINCT keyword and an ORDER BY clause.

**Response:** Remove the ORDER BY clause and submit the query again. An empty OVER() clause is allowed, or an OVER clause with only a window specification (PARTITION BY clause).

---

**RBA2416E**     **OLAP ranking, distribution, and numbering functions do not require any arguments.**

**Cause:** OLAP ranking, distribution, and numbering functions, such as RANK, DENSE\_RANK, NTILE, ROW\_NUMBER, CUME\_DIST, and PERCENT\_RANK, do not require any arguments. However, the empty parentheses must be specified: RANK(), for example.

---

**RBS2417E**     **A correlated column alias cannot be an argument to an OLAP function.**

**Cause:** An expression in the query contained a correlated column alias as an argument to an OLAP function. This kind of expression is not allowed.

---

**RBA2418E**     **Incorrect usage for OLAP function '*function\_name*'.**

**Cause:** Either the OVER clause is missing or some function arguments must be specified.

**Response:** Check the usage rules for the function in the SQL Reference Guide. Correct the syntax and submit the query again.

---

**RBA2419E**    **The window frame clause of an OLAP function requires an ORDER BY clause.**

**Cause:** When specifying an OLAP function, an ORDER BY clause is required if a window frame clause is present.

**Response:** Either remove the window frame clause or add an ORDER BY clause, as appropriate.

---

**RBS2420E**    **An OLAP function or RISQL display function can be used only as the first argument of STRING, SUBSTR, and TRIM.**

**Cause:** An OLAP function or RISQL display function was specified as the second or third argument of a STRING, SUBSTR, or TRIM function. This specification is not allowed.

**Response:** Specify the OLAP function or RISQL display function as the first argument to the string function and submit the query again.

---

**RBS2421E**    **When both of the boundaries of a window frame specify PRECEDING, the lower boundary value cannot be less than the upper boundary value.**

**Cause:** When the lower and upper boundaries of an OLAP window frame both specify PRECEDING, the lower (starting) boundary value cannot be less than the upper (ending) boundary value.

**Response:** Specify a lower boundary value that is greater than or equal to the upper boundary value.

---

**RBS2422E**    **When both of the boundaries of a window frame specify FOLLOWING, the lower boundary value cannot be greater than the upper boundary value.**

**Cause:** When the lower and upper boundaries of an OLAP window frame both specify FOLLOWING, the lower (starting) boundary value cannot be greater than the upper (ending) boundary value.

**Response:** Specify a lower boundary value that is less than or equal to the upper boundary value.

---

**RBS2423E**    **The PERCENTILE\_CONT and PERCENTILE\_DISC functions require a WITHIN GROUP clause.**

**Cause:** Inverse distribution functions such as PERCENTILE\_CONT and PERCENTILE\_DISC must contain both an OVER clause and a WITHIN GROUP clause.

**Response:** Specify a WITHIN GROUP clause before the OVER clause for these functions.

---

**RBS2424E**    **The PERCENTILE\_CONT and PERCENTILE\_DISC functions allow only one argument.**

**Cause:** More than one argument was specified. Inverse distribution functions such as PERCENTILE\_CONT and PERCENTILE\_DISC allow only one argument.

**Response:** Specify one argument for each function, using a value between 0 and 1 (inclusive).

---

**RBS2425E**    **The WITHIN GROUP clause for the PERCENTILE\_CONT function must specify an ordering column with a numeric datatype.**

**Cause:** The column specified in the WITHIN GROUP clause was not numeric. The ordering column for the PERCENTILE\_CONT function must be numeric.

**Response:** Specify a numeric column in the WITHIN GROUP clause.

---

**RBS2426E**    **The argument for a PERCENTILE\_CONT or PERCENTILE\_DISC function must evaluate to a value between 0 and 1 (inclusive).**

**Cause:** The argument for the PERCENTILE\_CONT and PERCENTILE\_DISC functions must be a literal value between 0 and 1 or an expression that evaluates to a value between 0 and 1 (inclusive).

**Response:** Correct the expression or value specified for the function.

---

**RBS2427E**    **For the PERCENTILE\_CONT and PERCENTILE\_DISC functions, only one ORDER BY column is allowed inside the WITHIN GROUP clause.**

**Cause:** The WITHIN GROUP clause specified multiple ORDER BY columns. Only one ordering column is allowed for these functions.

**Response:** Specify one ORDER BY column in the WITHIN GROUP clause.

---

**RBS2428E**    **Columns specified in an expression for the PERCENTILE\_CONT or PERCENTILE\_DISC function must also appear in the PARTITION BY clause.**

**Cause:** An expression was used as the argument to a PERCENTILE\_CONT or PERCENTILE\_DISC function, and the expression included a column. Columns within expressions for these functions must also be specified in the PARTITION BY clause.

**Response:** Change the argument to the function or add the column used in the argument to the PARTITION BY clause.

---

**RBS2429E**    **Arguments of the ROUND function must have a numeric datatype.**

---

**RBS2430E**    **The second argument of the ROUND function must have an integer datatype.**

---

**RBS2431E**    **An aggregate function, subquery, or another OLAP function cannot be an argument to the PERCENTILE\_CONT or PERCENTILE\_DISC function.**

**Cause:** An argument to the PERCENTILE\_CONT or PERCENTILE\_DISC function contained an aggregate function, subquery, or another OLAP function. This kind of expression is not allowed.

---

**RBS2491S**    **A SET command has made the following STAR indexes available for table *name* when joining *tables*:**

**Cause:** A SET command for the table has specified that the following STAR indexes are available for processing this query for the specified joined tables.

**Response:** None necessary.

---

**RBS2492S**    **A SET command has made no STAR indexes available for table *name* when joining *tables***

**Cause:** A SET command for the table has specified that no STAR indexes are available for processing this query for the specified joined tables.

**Response:** None necessary.

---

**RBS2493E**    **Table *name* must appear in the table list for the SET STAR INDEX statement.**

**Cause:** If the optional WHEN JOINING clause is used to specify a table list in the SET STAR INDEX statement, then this table list must contain the specified FOR table.

**Response:** Add the identified table name to the table list and resubmit the statement.

---

**RBS2494E**     **Index *name* does not exist or is not a STAR index for table *tname*.**

**Cause:** An existing STAR index on the specified table must be specified in a SET STAR INDEX AVAILABILITY statement.

**Response:** Specify the name of an existing STAR index for the table and submit the command again.

---

**RBS2495S**     **A SET command has made the following STAR indexes available for table *name*:**

**Cause:** A SET command for the table has specified that the following STAR indexes are available for processing this query.

**Response:** None necessary.

---

**RBS2496S**     *name*

**Cause:** A list of STAR indexes has been set for the previously specified table. The index specified takes part in that list.

**Response:** None necessary.

---

**RBS2497S**     **Table-specific STARjoin threshold of *threshold* was applied for table *name*.**

**Cause:** A table-specific STARjoin threshold was applied for the specified table. This threshold was set with a SET STARJOIN THRESHOLD command.

**Response:** None necessary.

---

**RBS2498S**     **Table-specific TARGETjoin threshold of *threshold* was applied for table *name*.**

**Cause:** A table-specific TARGETjoin threshold was applied for the identified table. This threshold was set with a SET TARGETJOIN THRESHOLD command.

**Response:** None necessary.

---

**RBS2499E**     **Table *name* does not exist or is not valid.**

**Cause:** An existing table name must be provided for a STARJOIN THRESHOLD, TARGETJOIN THRESHOLD, or STAR INDEX AVAILABILITY statement. Views, synonyms, system tables, and model tables are not allowed.

**Response:** Specify an existing table name and submit the command again.

---

**RBS2500S**     **A SET command has made no STAR indexes available for table *name***

**Cause:** A SET command for the table has specified that no STAR indexes are available for processing this query.

**Response:** None necessary.

---

**RBS2501E**     **Invalid cursor state - Statement not executed.**

**Cause:** Operations such as fetch cursor are not allowed without executing the statement.

**Response:** Confirm whether or not a statement has been executed before calling fetch.

---

**RBS2502E**     **Operation was cancelled by an external agent.**

**Cause:** The current operation was cancelled by some external agent; a possible cause is that the DBA issued an ALTER SYSTEM CANCEL USER SESSION command.

**Response:** Notify the warehouse administrator.

---

**RBS2503E**     **User not connected yet.**

---

**RBS2504E**     **Protocol version mismatch.**

**Response:** Notify the warehouse administrator.

---

**RBS2505E      Too few parameter values specified.**

**Cause:** The application did not supply values for all the parameters in the SQL statement string.

**Response:** Supply values for all the parameters.

---

**RBS2506E      Invalid client request passed to server.**

**Cause:** The client passed an invalid request to the server.

**Response:** Notify the warehouse administrator.

---

**RBS2507E      There is an open cursor in some statement handle.**

**Cause:** A request issued on a statement handle cannot be completed because there is an open cursor in some statement handle.

**Response:** Close the cursor in that handle and reissue the request.

---

**RBS2508E      Invalid statement state - statement not prepared.**

**Cause:** The application issued an execute request without preparing the statement.

**Response:** Contact the warehouse administrator or the application developer.

---

**RBS2509E      The cursor '*cursor\_name*' not found.**

**Cause:** The cursor name used for the client was not found.

**Response:** Contact the warehouse administrator.

---

**RBS3000E      CHECK TABLE cannot reference system tables.**

**Cause:** A CHECK TABLE statement specified a system table.

**Response:** CHECK TABLE operations on system tables are not supported.

---

---

**RBS3001E      CHECK TABLE must reference a base table.**

**Cause:** A CHECK TABLE statement specified an object that is not a base table. CHECK TABLE can only operate on base tables. CHECK TABLE cannot operate on temporary tables, views, other synonyms, or model tables.

**Response:** Rewrite the CHECK TABLE statement to reference a base table and resubmit it.

---

**RBS3002E      A directory for logging output must be specified.**

**Cause:** A CHECK TABLE or CHECK INDEX statement must specify a directory in which to store the logging output.

**Response:** Rewrite the CHECK statement to include a DIRECTORY <log-directory> clause so that output is logged to the log directory, and resubmit the statement.

---

**RBS3003E      The logging directory *dir\_name* must exist and be writable.**

**Cause:** The directory for the CHECK TABLE and CHECK INDEX statements must exist and be writable.

**Response:** Ensure that the specified directory exists and is writable, and resubmit the statement.

---

**RBS3004E      The segment *seg\_name* is not associated with *seg\_name obj\_name*.**

**Cause:** A segment was specified as part of the CHECK INDEX or CHECK TABLE statement, but the segment is not part of the index/table.

**Response:** Specify a segment that is part of the index/table and resubmit the statement.

---

**RBS3005E      Insufficient authority to CHECK object.**

**Cause:** The user who issued the CHECK statement did not have the required authority. To check a table or an index, a user must be a

member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS3006E      Validation cannot be forced on a single segment of the index.**

**Cause:** FORCE\_VALID option is specified with a SEGMENT clause.

**Response:** Rewrite the statement without the SEGMENT clause.

---

**RBS3007E      FORCE\_VALID option cannot be specified with other option(s).**

**Cause:** FORCE\_VALID option is specified with other option(s).

**Response:** If you are sure that the index is valid and want to force the validity, then rewrite the statement with only the FORCE\_VALID option. Otherwise, remove the FORCE\_VALID option from the statement.

---

**RBS3008E      DESCRIBE option cannot be specified with other option(s).**

**Cause:** DESCRIBE option is specified with other option(s).

**Response:** If you need only the index configuration information, then rewrite the statement with only the DESCRIBE option. Otherwise, remove the DESCRIBE option from the statement.

---

**RBS3201E      FILLFACTOR is not allowed for non-varchar columns**

**Cause:** A FILLFACTOR is specified for non-VARCHAR columns in a CREATE TABLE or ALTER TABLE command. FILLFACTOR is allowed only for VARCHAR columns.

**Response:** Correct and rerun the SQL command.

---

**RBS3501E      SERIAL value overflow**

**Cause:** SERIAL value is generated using stored serial value plus the step value. If the value generated by this formula is greater than 2147483647 (2<sup>31</sup>-1), the value is overflow.

**Response:** Reset the SERIAL START or STEP value to avoid the overflow.

---

**RBS3502E      Too many SERIAL columns are defined for a table**

**Cause:** Only one SERIAL column is allowed for a table.

**Response:** Ensure that only one SERIAL column is defined in a table.

---

**RBS3503E      SET or DROP column DEFAULT specification is not allowed for SERIAL column**

**Cause:** DEFAULT specification is not allowed for SERIAL column.

**Response:** Do not SET or DROP DEFAULT on a SERIAL column.

---

**RBS3504E      Invalid Syntax 'ALTER TABLE *table\_name* ALTER COLUMN *column\_name* SET SERIAL <==> *para\_name*'**

**Cause:** SET SERIAL is expecting keywords START or STEP.

**Response:** Check the ALTER TABLE statement.

---

**RBS3505E      ALTER TABLE *table\_name* ALTER *column\_name* SET SERIAL... only applies to SERIAL column**

**Cause:** ALTER TABLE <table\_name> ALTER <column\_name> SET SERIAL... on a non-SERIAL column.

**Response:** Confirm whether or not the column is a SERIAL column.



---

**RBS3506E     Incorrect START or STEP value  
                 for a SERIAL column**

**Cause:** START or STEP for a SERIAL column is less than or equal to 0.

**Response:** Correct the START and STEP value.

---

**RBS3507E     SERIAL column *col\_name* can not  
                 be in FOREIGN KEY**

**Cause:** Foreign key definition contains a SERIAL column.

**Response:** Confirm whether or not a SERIAL column is defined in foreign key constraint.

---

**RBS3508E     Cannot SET SERIAL STEP to  
                 *step\_value***

**Cause:** The next SERIAL value generated with this new step value is zero or negative.

**Response:** Correct the step value and resubmit the SQL statement.

---

**RBS3541E     View table *tab\_name* cannot have a  
                 SERIAL column *col\_name***

**Cause:** A SERIAL column is defined in a precomputed view table.

**Response:** Correct and resubmit the SQL statement.

---

**RBS3542E     A Value(*serial\_val*)  
                 inserted/updated to a SERIAL  
                 column was less than or equal to  
                 zero**

**Cause:** Inserting or updating zero or negative value to a SERIAL column is not allowed.

**Response:** Check the data to ensure that no zero or negative value will be inserted or updated to a SERIAL column.

---

**RBL3571E     Cannot load table *tab\_name* with  
                 SERIAL column in offline mode**

**Cause:** A SERIAL column is defined for the target loading table. Loading SERIAL column in

offline mode is not supported.

**Response:** Change to online load.

---

**RBL3572W     Input row *row\_num* has a negative  
                 or zero value for SERIAL column.  
                 Row discarded.**

**Cause:** A negative or zero value for a SERIAL column is in the input data.

**Response:** Correct and reload the data.

---

**RBL3573W     Autorowgen attempting to insert a  
                 negative or zero value into  
                 SERIAL column *col\_name* in table  
                 *tab\_name*. Row discarded.**

**Cause:** Input data contains a negative or zero value for the SERIAL column of a foreign key referencing table.

**Response:** Correct and reload the data.

---

**RBL3574F     Cannot use DEFAULT operator on  
                 SERIAL column *column\_name*.**

**Cause:** The DEFAULT operator was specified for a SERIAL column. Because the SERIAL column does not have a default value, it cannot be used.

**Response:** Remove the SERIAL column specification to generate the next SERIAL value.

---

**RBS6400E     Cannot RELEASE STORAGE:  
                 Segment does not contain data in  
                 a format that is supported by this  
                 command.**

**Cause:** An ALTER SEGMENT RELEASE STORAGE command was issued on a table segment containing data in a format not supported by this command.

**Response:** Check the table type by running the CHECK TABLE command.

---



---

**RBS6401E**     **Cannot RELEASE STORAGE:  
Command not supported for  
default segments.**

**Cause:** An ALTER SEGMENT RELEASE STORAGE command was issued on a default segment. Such segments are not supported by this command.

**Response:** No response.

---

**RBS6402E**     **Cannot RELEASE STORAGE: No  
freeable space in the segment.**

**Cause:** An ALTER SEGMENT RELEASE STORAGE command was issued on a segment that has blocks that cannot be deleted without loss of data.

**Response:** Check the RBW\_SEGMENTS.USED column and the physical file size to see if space can be freed.

---

**RBS6403W**     **Percentage of blocks freed: *number*  
percent.**

**Cause:** The ALTER SEGMENT RELEASE STORAGE command succeeded in truncating some PSUs. The percentage of space freed is displayed.

**Response:** No response.

---

**RBS6404E**     **Cannot drop PSU '*psu\_name*'  
because it is the only PSU of the  
segment.**

**Cause:** A segment containing only one PSU cannot be dropped because the PSU contains metadata information about the segment.

**Response:** The DROP LAST STORAGE command cannot be used in this case.

---

**RBS6405E**     **Cannot drop PSU '*psu\_name*'  
because it has blocks that are in  
use or are not yet released.**

**Cause:** The PSU contains blocks that have data. It is also possible that the blocks do not have any data, but may still be logically in use. Dropping the PSU would cause loss of data, or lead to

inconsistency in the segment structure.

**Response:** If the user knows that there is no valid data in the last PSU, or it contains deleted records only, then an ALTER SEGMENT RELEASE STORAGE command might release the storage. It might then be possible to safely drop the PSU.

---

**RBS6406E**     **Cannot create STAR index  
because the leading dimension  
table does not have at least one  
row for each range of the  
segmented table on which the  
STAR index is based.**

**Cause:** To segment a STAR index like the fact table, the leading dimension of the STAR index must have at least one row whose value falls within a range of the fact table. This condition must be satisfied for all fact table ranges. This condition is not necessary if the fact table is not segmented.

**Response:** Insert at least one row in the leading dimension table for each segment range of the fact table, or, use another foreign key as the leading key of the STAR index.

---

**RBS6407E**     **Cannot create STAR index  
because the segmentation ranges  
obtained from the leading  
dimension table overlap.**

**Cause:** To segment a STAR index like the fact table, the row number ranges obtained for each segment of the STAR index should not overlap.

**Response:** Create a STAR index by explicitly specifying the ranges using the SEGMENT BY REFERENCES OF...RANGES... clause.

---

**RBS6408E**     **INVALIDATE is not a valid  
option when attaching a segment  
to a local index.**

**Cause:** ALTER SEGMENT ATTACH TO INDEX <local\_index>... had INVALIDATE specified. The INVALIDATE keyword can only be used when attaching or detaching a non-local index segment.

**Response:** Reissue the command without the INVALIDATE option.

---

**RBS6409E     The segmenting column of the index does not match the segmenting column of the data.**

**Cause:** When a segment is being attached to a STAR index via the RANGE LIKE SEGMENT clause, the index and the data must be segmented on the same column. The segmenting column of the STAR index must also be the leading column in the index key.

**Response:** Check that the table segment specified belongs to the table on which the index is based. Also check that the table is segmented on a column which is the first column of the leading foreign key of the STAR index. The STAR index should also be segmented on this leading foreign key.

---

**RBS6410E     Cannot attach a segment to a STAR index because the leading dimension table does not have at least one row in the range of the specified table segment.**

**Cause:** To segment a STAR index like the fact table, the leading dimension of the STAR index must have at least one row whose value falls within a range of the fact table. This condition must be satisfied for all fact table ranges. This condition is not necessary if the fact table is not segmented. Likewise, to attach a segment to a STAR index using the RANGE LIKE SEGMENT <table segment> clause, there must be at least one row in the leading dimension within the range of the specified table segment.

**Response:** Insert at least one row in the leading dimension table with a value for the primary key that falls within the range of the table segment.

---

**RBS6411E     Cannot DROP LAST STORAGE: segment does not contain data in a format that is supported by this command.**

**Cause:** An ALTER SEGMENT DROP LAST STORAGE command was issued on a table

segment that contains data in a format that is not supported by this command.

**Response:** Check the table type by running the CHECK TABLE command.

---

**RBS6412E     INVALIDATE cannot be used when moving the range of a table segment.**

**Cause:** ALTER SEGMENT RANGE MOVE statement had INVALIDATE specified. This can only be used when moving the range of an index segment.

**Response:** Remove the INVALIDATE specification and re-attempt the command.

---

**RBS6413E     The RANGE operation would invalidate the index, but INVALIDATE is not specified.**

**Cause:** The index segment whose range is being moved is not empty. If the range is moved, the new boundaries would require that values move from one segment to another. Because data is not moved during a RANGE MOVE operation, the index must be marked invalid. However, the user has not specified the INVALIDATE clause, which indicates that invalidating the index is acceptable.

**Response:** Delete the rows from the table that correspond to this segment of the index, or specify INVALIDATE if invalidating the index is acceptable.

---

**RBS6414E     Cannot change the range of segment *segment\_name* because the new range will not match a boundary when the segment is being moved.**

**Cause:** The new range does not match an existing boundary. It would cause gaps in the segmentation scheme.

**Response:** Correct the range so that the segment ranges are continuous and resubmit the command.

---

**RBS6415E** To change the range of a segment without moving it to a different position in the range list, please use the ALTER SEGMENT RANGE command without the MOVE clause.

**Cause:** The segment range is being changed in such a way that the segment will retain its position in the range list. In effect, the segment is not really being 'moved'. The same functionality can be achieved by the RANGE command without the MOVE clause. Another condition where this error can occur is when moving the segment hides a boundary. When a segment is moved, (1) it is first logically detached, (2) the ranges of the adjacent segments adjusted, (3) it is logically reattached, (4) ranges of the adjacent segments readjusted. For example, if the existing segments and their ranges are seg\_1 min : 30 seg\_2 30 : 70 seg\_3 70 : max then a move of seg\_1 to (30 : 50) is not possible, because, after Step. 1, where seg\_1 is logically detached, ranges for the remaining segments are seg\_2 min : 70 seg\_3 70 : max At this point, the new range (30 : 50) does not match any existing boundary. Also, this range would not have caused the segment to change its relative position. Thus this command cannot continue. Similar error conditions would be - a move for seg\_2 to (20 : 30), or for seg\_3 to (50 : 70).

**Response:** Reattempt the command without specifying the MOVE clause.

---

**RBS6416E** Cannot move the range of table segment *segment\_name* because it is not empty.

**Cause:** RANGE MOVE is not valid for non-empty table segments.

**Response:** Delete the data in the segment or clear the segment and reissue the command.

---

**RBS6451E** Cannot complete the ALTER TABLE operation because not enough disk space is available for segment *segment\_name*.

**Cause:** A file system on which the PSUs of the segment reside has run out of space.

**Response:** Make available sufficient disk space on the full filesystem or use ALTER SEGMENT to add a PSU on another file system.

---

**RBL6470W** TMU MAX BUFFERS specification is set too high for this system; performance degradation might occur.

**Cause:** The requested number of buffers resulted in virtual memory requirements that the current system might not be able to manage efficiently.

**Response:** Consider reducing the value of the TMU MAX BUFFERS parameter.

---

**RBL6471I** Buffer memory could not be allocated.

**Cause:** The amount of buffers specified by the TMU MAX BUFFERS command could not be allocated.

**Response:** Reduce the amount of buffers and submit the command again.

---

**RBL6472S** Task: *tsk\_id* of type: *tsk\_typ* allocated *n\_total* blocks, peak pinned *n\_used* blocks. Logical Reads/Writes *lrb* / *lwb*, Block Cache Reads/Writes *lrb* / *lwb*.

**Cause:** This message contains statistical information about the buffer usage of the load command.

**Response:** None.

---

**RBL6473S**    *n\_tsk tsk\_typ* **task(s). Total buffer memory: *n\_total* blocks. Logical Reads/Writes *lrb* / *lwb*, Block Cache Reads/Writes *lrb* / *lwb*.**

**Cause:** This message contains statistical information about the buffer usage of the load command.

**Response:** None.

---

**RBL6474S**    **Total buffer memory: *n\_total* blocks. Logical Reads/Writes *lrb* / *lwb*, Block Cache Reads/Writes *lrb* / *lwb*.**

**Cause:** This message contains statistical information about the buffer usage of the load command.

**Response:** None.

---

**RBL6475W**    **The sum of task-buffer percentages specified as *tun\_set* parameters exceeds 100 percent. Internal defaults will be used.**

**Cause:** The SET TMU CONVERSION BUFFER PERCENT, OUTPUT BUFFER PERCENT, and INDEX BUFFER PERCENT commands requested a combined total of percentage values that exceeded 100 percent. The SET commands were ignored and the default parameter settings were used instead.

**Response:** Configure the three parameters to equal a maximum of 100 percent.

---

**RBL6476S**    **Task: *tsk\_id* of type: *tsk\_typ* has reduced the number of buffers by *pct* percent due to primary-key memory mapping.**

**Cause:** The primary-key index files are memory mapped. The amount of buffers is reduced accordingly.

**Response:** None.

---

**RBL6477S**    **The table being loaded has no foreign keys. Task: *tsk\_id* of type: *tsk\_typ* has reduced the number of buffers to the minimum amount.**

**Cause:** The table has no foreign keys. The amount of buffers has been reduced accordingly.

**Response:** None.

---

**RBL6478S**    ***tsk\_typ* task buffers will be distributed to other tasks.**

**Cause:** There are either no tasks of the type specified in the message or the task type does not require additional memory. Buffer memory designated for the reported task type will be distributed to other tasks.

**Response:** None.

---

**RBL6479S**    **This REORG operation does not perform any referential-integrity checks. Task: *tsk\_id* of type: *tsk\_typ* has reduced the number of buffers to the minimum amount.**

**Cause:** This particular REORG operation will not perform any referential-integrity checking because the REFERENCE CHECKING OFF option has been selected. The amount of buffers has been reduced accordingly.

**Response:** None.

---

**RBL6480E**    **TMU MAX BUFFERS exceeds 196,608 (1.5GB)**

**Cause:** The number of buffers exceeds the limit.

**Response:** Reduce the number and resubmit the command.

---

**RBA6500E**    **Cannot start a new transaction.**

**Cause:** The transaction manager was not ready or terminated.

---

**RBA6505E**    **The active revision table is full.**

**Cause:** A long-running transaction is holding up the revision.

**Response:** Stop the long-running transaction or increase the size of the active revision table. To increase the size of the active revision table, drop the version log and recreate it with the new revision table size.

---

**RBA6506E    Cannot start a VERSIONING transaction because the database is not enabled for versioning.**

**Cause:** Versioning capability has been turned off by an ALTER DATABASE STOP VERSIONING statement; however, the user is expecting to use versioning through the use of SET VERSIONING ON command or an OPTION VERSIONING ON entry in the rbw.config file.

---

**RBS6507F    The current database session and your connection have been terminated.**

**Cause:** You issued the ALTER SYSTEM TERMINATE statement.

**Response:** Use the CONNECT statement to reconnect to the database.

---

**RBS6508E    Cannot execute statement because other users are connected to the database.**

**Cause:** You can execute this statement only if you are the only user of the database.

**Response:** Terminate all other user sessions. If necessary, quiesce the database. Then re-enter the statement.

---

**RBS6509F    Database refusing connection; cannot connect to database.**

**Cause:** Another user is doing something to the database that causes it to refuse connections.

**Response:** Try to reconnect later.

---

**RBS6510E    Segment *segment\_name* is currently designated as the version log segment.**

**Cause:** A database can have only one version log segment. An attempt was made to add a version log segment to a database that already has a version log segment.

**Response:** If there is an error during an ALTER DATABASE CREATE VERSION LOG command, the system can create a version log segment, but it cannot be enabled as a version log. If this is the case, use an ALTER DATABASE DROP VERSION LOG command to remove the current version log segment before creating a new version log.

---

**RBS6511E    Segment *segment\_name* is in use.**

**Cause:** You attempted to use a segment that is already in use.

**Response:** Check the status of the segment in the RBW\_SEGMENTS table.

---

**RBS6512E    Not enough disk space for the log segment.**

**Cause:** When the log segment is created, all of its PSUs are expanded to their maximum size (MAXSIZE). This error occurs if there is not enough room on disk for the entire log segment.

**Response:** Drop the version log, redefine the log segment PSUs so that there is enough disk space for them to be expanded to their maximum size, and then specify the segment as the log segment with the ALTER DATABASE CREATE VERSION LOG command.

---

**RBS6513E    Database does not have a version log.**

**Cause:** You attempted to enable or drop a non-existent version log.

**Response:** Create the version log and re-enter the statement. If there is an error during an ALTER DATABASE CREATE VERSION LOG command, a version log segment might exist but it cannot be enabled as the version log. If this is

the case, use an ALTER DATABASE DROP VERSION LOG command, and then recreate the version log.

---

**RBS6514E      Cannot drop version log because versioning is enabled or the log is not empty.**

**Cause:** The version log cannot be dropped because versioning is enabled or the log is not empty.

**Response:** Confirm that versioning is disabled; then wait until the version log is empty and re-enter the DROP statement.

---

**RBS6515E      Cannot stop vacuum cleaning because it may be cleaning for a blocking transaction.**

**Cause:** The vacuum cleaner is currently helping a blocking transaction to clean the version log for the blocks it is going to modify.

**Response:** After the blocking transaction has finished, re-enter the STOP CLEANING command.

---

**RBA6516F      RBWAPID is not running or not available.**

**Cause:** The RBWAPID daemon is not running or is being shut down.

**Response:** Ensure that the RBWAPID daemon is properly started.

---

**RBS6517E      Cannot perform operation on segment *segment\_name*, which contains the version log.**

**Cause:** A DROP SEGMENT or an ALTER SEGMENT statement with an option that is valid only for non-VERSION LOG segments was issued for the VERSION LOG segment.

**Response:** Carefully review what you are attempting.

---

**RBS6518E      Cannot start vacuum cleaning because stop cleaning is in progress.**

**Cause:** Another user issued a STOP CLEANING command, and the command has not finished.

**Response:** Wait for the STOP CLEANING command to finish and then re-enter the START CLEANING command.

---

**RBS6520F      Error initializing lock file  
*'file\_name': error\_text.***

**Cause:** The database lock file could not be initialized.

**Response:** Check the file permissions on the file and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The owner of the Red Brick Warehouse server executable file must be able to create, remove, read, and write the specified lock file.

---

**RBS6521F      Operating system error setting or releasing lock on *'file\_name'*:  
*error\_text.***

**Cause:** The operating system returned an error when Red Brick Warehouse attempted to set a lock on the database lock file.

**Response:** The indicated error might be the result of a problem with the configuration of the platform on which Red Brick Warehouse is executing. If so, correct the problem and restart the warehouse daemon. If unable to determine the problem, record what you were doing and contact Customer Support.

---

**RBS6522E      Insufficient authority to perform ALTER DATABASE operation.**

**Cause:** The user who issued the ALTER DATABASE statement did not have the required authority. To use an ALTER DATABASE command, a user must have ALTER\_SYSTEM task authority.

**Response:** Notify the warehouse administrator and request the required authority.



---

**RBA6523F    Reached the maximum number of active databases.**

**Cause:** The limit on the number of active databases has been reached.

**Response:** Either use an ALTER DATABASE TERMINATE command to stop databases that are not required to be active, or else increase the value of the MAX\_ACTIVE\_DATABASES parameter in the rbw.config file and restart the RBWAPID daemon.

---

**RBA6524F    Reached the maximum number of database sessions.**

**Cause:** The limit on the total number of database sessions was reached.

**Response:** Review the DST\_SESSIONS table and kill any idle database sessions.

---

**RBA6525E    Vacuum cleaner daemon is not running.**

**Cause:** The backup process was started when the vacuum cleaner daemon is not running and the version log is not empty.

**Response:** Start vacuum cleaner daemon and rerun backup.

---

**RBA6526F    The shared state of the current database may be corrupt. Please logout immediately!**

**Cause:** An error has been discovered in the shared state of the current database. Some possible causes are:

- A process died abnormally while modifying the shared memory.
- The version log is corrupted (message 6543 also issued).
- Cannot start a database during the first connection--that is, the database starter daemon got a fatal error (for example, not enough shared memory or an invalid locale) during the startup.

**Response:** Use the following procedure to recover:

(1) Issue an ALTER SYSTEM QUIESCE DATABASE <database> command from the ADMIN database to stop new connections.

(2) Look at the RBWLOG file (the last error before seeing the message 6526) to identify what corrupted the database shared memory.

(3) Shutdown the database by issuing an ALTER DATABASE TERMINATE DATABASE <database> command from the ADMIN database.

(4) Correct the problem found in step (2) if possible, otherwise contact Customer Support for assistance.

(5) Issue an ALTER SYSTEM RESUME DATABASE <database> command from the ADMIN database to allow new connection to the database.

(6) Reconnect to the database from the RISQL Entry Tool, which executes the recovery mechanism.

---

**RBA6527F    The current database is being closed down.**

**Cause:** The current database is being closed down by another user.

**Response:** Wait until the database has been completely closed down. Then try to reconnect, which will restart the database.

---

**RBS6528E    The maximum number of active revisions should be at least *min\_number*.**

**Cause:** The value specified for the maximum number of active revisions is too small.

**Response:** Re-issue the command with a larger value.

---

**RBS6529E    This command cannot be issued from the ADMIN database.**

**Cause:** A system management operation was attempted in the ADMIN database.

**Response:** Connect to the appropriate database and re-issue the command.



---

**RBS6530E    This command must be issued from the ADMIN database.**

**Cause:** You can administer another database only from the ADMIN database.

**Response:** Connect to the ADMIN database and re-issue the command.

---

**RBA6531E    Version log full. Statement aborted.**

**Cause:** When the version log was full, the statement was aborted.

**Response:** Either make the version log bigger or else wait until other versioning statements have completed, and then re-enter the statement.

---

**RBA6532E    Out of vacuum cleaner shared resources.**

**Cause:** The vacuum cleaner infrastructure has run out of shared resources. Either the vacuum cleaner is not running or else it is not able to keep up with the changes.

**Response:** Wait for a few minutes and re-attempt the operation.

---

**RBA6533F    This program is not compatible with the RBWAPID daemon.**

**Cause:** This current executable file is not compatible with the rest of the Red Brick software.

**Response:** Check your path and ensure that you are using the correct version of the current program.

---

**RBA6534F    Not able to allocate enough shared memory.**

**Cause:** The shared memory limit has been reached.

**Response:** Increase the operating system shared memory segment limit or the system pagefile size.

---

**RBA6535F    Unable to find the SHMEM declaration for the given RB\_HOST in the config file.**

**Response:** Cannot find the shared memory declaration (SHMEM) for the warehouse logical name. Add a SHMEM declaration for the desired RB\_HOST entry in the rbw.config file.

---

**RBA6540F    Session terminated; shared memory might be corrupt.**

**Cause:** A process terminated while it was modifying shared memory. It is not safe to use the contents of the current shared memory.

**Response:** Stop the RBWAPID daemon, which will terminate use of the current shared memory, and then restart the RBWAPID daemon.

---

**RBL6541F    Version log exists. Cannot perform UPGRADE unless version log is dropped.**

**Cause:** An UPGRADE operation was attempted on a database with a version log.

**Response:** Drop the version log and then rerun the UPGRADE operation.

---

**RBA6542W    All uncommitted changes have been rolled back.**

**Cause:** All uncommitted changes for this operation have been rolled back because the current transaction was aborted.

**Response:** None necessary.

---

**RBA6543F    The version log is damaged. The shared resources of the database have been marked corrupted.**

**Cause:** The version log segment is damaged. The database cannot be used until this problem has been fixed.

**Response:** Use the following procedure:

(1) Use an ALTER SYSTEM QUIESCE DATABASE <database> command from the ADMIN database to stop new connections.

(2) Shut down the database with an ALTER DATABASE TERMINATE command from the ADMIN database.

(3) Correct the damaged version log segment.

(4) Issue an ALTER SYSTEM RESUME DATABASE <database> command from the ADMIN database to allow new connections to the database again.

(5) Reconnect to the database from the RISQL Entry Tool, which executes the recovery mechanism.

---

**RBA6544F    The database entry has inconsistent information.**

**Cause:** This condition can occur when a previous database directory was removed by the operating-system file deletion command instead of by the Red Brick Warehouse database-deletion command.

**Response:** Either issue an ALTER DATABASE TERMINATE DATABASE <database> command from the ADMIN database to remove the database entry, or else stop and restart the APID. Then reconnect to the database.

---

**RBA6545E    Command not allowed on a database with a version log.**

**Cause:** This command cannot be performed on a database with a version log.

**Response:** Drop the version log and proceed with the operation.

---

**RBA6546E    Not able to start a vacuum cleaner daemon.**

**Cause:** An error occurred during an attempt to start a vacuum cleaner daemon.

**Response:** Find the error in the rbwlog file and correct the problem that caused the error and resubmit the command.

---

**RBA6547E    The size of the version log PSU id *psu\_num1* must be a multiple of the operating system page size.**

**Cause:** The specified PSU is memory-mapped by the version log, and the size of the PSU must be a multiple of the operating-system page size.

**Response:** Drop the version log, and change the MAXSIZE of the specified PSU so that its size is a multiple of the operating-system page size. Recreate the version log.

---

**RBS6548E    Cannot set the query revision because it is already active.**

**Cause:** Query revision is already set.

---

**RBS6549E    Cannot reset the query revision because it is not active.**

**Cause:** Query revision is not set.

---

**RBS6550E    Cannot alter QUERY REVISION because the database is not versioning-enabled.**

**Cause:** The database does not have a version log or it is not versioning-enabled.

**Response:** Confirm whether or not the database has a version log. If not, create it. Otherwise, issue an ALTER DATABASE START VERSIONING command to enable versioning.

---

**RBS6551I    Successfully set the query revision to *revision*.**

**Cause:** Indicates that the default revision is being set with the latest revision shown in the message. All the subsequent queries should use this revision as their default read revision unless a SET USE LATEST REVISION command is used in the session to override the default.

---

**RBA6552E    Cannot perform an update operation using the query revision.**

**Cause:** All update (either VERSIONING or BLOCKING) operations on a user table require

the use of the latest revision. Using the query revision will give this error.

**Response:** Issue a SET USE LATEST REVISION ON command to use the latest revision.

---

**RBS6553E      Cannot STOP VERSIONING  
when query revision is active.**

**Cause:** It is not allowed to stop versioning when query revision is active.

**Response:** Disable the query revision first by ALTER DATABASE UNFREEZE QUERY REVISION and then re-attempt the command.

---

**RBS6554E      Blocking operation not allowed  
while a query revision is active.**

**Cause:** This operation needs to clean the version log or update the system tables, which cannot be done while a frozen query revision is active.

**Response:** If the operation is versioning, SET VERSIONING ON in your session and re-execute the command. Otherwise, you have to wait until the database has been unfrozen by an ALTER DATABASE UNFREEZE QUERY REVISION and then re-attempt the operation.

---

**RBL6555W      No frozen query revision is  
present. Unload will use the latest  
revision.**

**Cause:** The TMU UNLOAD statement has a query revision clause. However, there is no frozen query revision in the database. The unload operation will use the latest revision instead.

---

**RBA6556E      Problem detected with blocks on  
free list in segment 'segmentname'**

**Cause:** A possible anomaly has been detected in the block free list for the table in question. This might be related to some problem related to the maxrows per segment specified for the table.

**Response:** Notify Customer Support; Details of the steps that led to this problem should be recorded if possible and forwarded to the Customer Support representative. Use of ALTER

TABLE to increase the MAXROWS PER SEGMENT might resolve this problem. However, changing the size of a referenced table in a STAR index might require a REORG operation on the referencing table.

---

**RBA6991I      Number of active connections ...:  
connections**

**Response:** None necessary.

---

**RBA6992I      Number of active database .....:  
databases**

**Response:** None necessary.

---

**RBA6993I      Active connections to database  
'dbname'.**

**Response:** None necessary.

---

**RBA6994E      rbshow: Missing argument for  
-dbc option.**

**Response:** None necessary.

---

**RBA6995W      Cannot delete database 'dbname'.  
Database is in use.**

**Response:** None necessary.

---

**RBA7000I      BAR[ result ]: 'message'.**

**Cause:** The detail message has been returned by BAR external library component.

**Response:** None necessary.

---

**RBA7001E      Unable to allocate number bytes of  
memory for 'name'.**

**Cause:** Not enough memory.

**Response:** Contact the warehouse administrator.

---

**RBA7002E      Environment variable  
RB\_CONFIG not set.**

**Response:** Set the environment variable RB\_CONFIG.

---

**RBA7003E**    **Given 'name' object is not locked.**

**Cause:** The object might be deleted or might not be present in the database at all.

**Response:** Ensure the object is present in the database and not locked.

---

**RBA7004E**    **Given 'name' object is not present in the database.**

**Cause:** The object is not present in the database.

**Response:** Create a valid object in the database.

---

**RBA7005E**    **Object 'name' already locked.**

**Cause:** Object already locked.

**Response:** Unlock the locked object and re-attempt.

---

**RBA7006E**    **Backup segment does not exist.**

**Cause:** A backup segment must exist before you can perform a backup/restore operation.

**Response:** Create a backup segment.

---

**RBA7007E**    **Environment variable RB\_PATH not set.**

**Response:** Set the environment variable RB\_PATH to default (physical) database path.

---

**RBA7009E**    **BAR library message is not accessible due to library interface error. Reason code: code.**

**Cause:** BAR external library interface internal programming error.

**Response:** No response. Contact Customer Support.

---

**RBA7010I**    **BAR library operation was successful.**

**Cause:** BAR external library operation successfully completed.

**Response:** No response required.

---

---

**RBA7011F**    **Severe error occurred. BAR operation cannot continue. Operation, Library, and Reason Code: code1, code2, code3.**

**Cause:** Severe error occurred during BACKUP or RESTORE processing.

**Response:** No response required. This message is usually preceded by the original error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBA7012I**    **BAR library operation was successful. Additional messages follow.**

**Cause:** BAR external library operation completed with additional messages.

**Response:** No response required.

---

**RBA7013I**    **BAR library operation was not successful. Error messages follow.**

**Cause:** BAR external library operation resulted in an error.

**Response:** No response. Correct the error and retry.

---

**RBA7014I**    **Fatal error occurred in BAR library operation. Error messages follow.**

**Cause:** BAR external library operation resulted in a fatal error. Correct the error and retry. If the origin of the error cannot be resolved, contact Customer Support.

**Response:** No response.

---

**RBA7015I**    **BAR library operation could not access message base file (message base error code code).**

**Cause:** BAR external library cannot process the message. Contact Customer Support.

**Response:** No response.

---

---

**RBA7016I**    **BAR library could not obtain the version of the database.**

**Cause:** BAR external library cannot access the database.

**Response:** If a cold restore is required, re-create the database. Otherwise, contact Customer Support.

---

**RBA7017I**    **BAR library internal programming error. Reason Code: *code*.**

**Cause:** BAR library internal programming error.

**Response:** No response. Contact Customer Support.

---

**RBA7018I**    **BAR library indicates that the version of the database is not compatible with the version of the product.**

**Cause:** The version of the database and the version of the product are incompatible.

**Response:** If a cold restore is required, re-create the database. Otherwise, check the documentation for information about database and product version compatibility.

---

**RBA7019I**    **BAR library could not access the database model file: *file*.**

**Cause:** BAR library could not process the file shown.

**Response:** Contact Customer Support.

---

**RBA7020I**    **BAR library found the database object not locked properly.**

**Cause:** Internal programming error.

**Response:** Contact Customer Support.

---

**RBL7021I**    **Foreign backup process started, database *db*.**

**Cause:** The message indicates that the foreign backup process is about to start.

**Response:** No response.

---

**RBL7022I**    **Foreign backup process completed, database *db*.**

**Cause:** The message indicates that the foreign backup process is complete.

**Response:** No response.

---

**RBL7034I**    **Error writing backup history file - history filename: *hfname*.**

**Cause:** The backup history log file record could not be written to the file specified.

**Response:** Resolve the problem. If the problem persists, contact Customer Support.

---

**RBL7035I**    **TMU *ver* [BAR] Foreign restore started. DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*.**

---

**RBL7036I**    **TMU *ver* [BAR] Foreign restore completed. DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*.**

---

**RBL7037I**    **TMU *ver* [BAR] Foreign backup started. DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*.**

---

**RBL7038I**    **TMU *ver* [BAR] Foreign backup completed. DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*.**

---

**RBL7039I**    **TMU *ver* [BAR] Restore started. DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*.**

---

**RBL7040I**    **TMU *ver* [BAR] Restore completed.** DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*, Number of BAR Units Restored: *bar\_unit\_num*, Number of Segments Restored: *seg\_num*, Number of PSUs Restored: *psu\_num* Number of Blocks Restored: *block\_num*

---

**RBL7041I**    **TMU *ver* [BAR] Backup started.** DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*.

---

**RBL7042I**    **TMU *ver* [BAR] Backup completed.** DB: *db*, HOST and USER: *host\_user*, DATE and TIME: *time*, COMMAND: *cmd*, Number of BAR Units Backed Up: *bar\_unit\_num*, Number of Segments Backed Up: *seg\_num*, Number of PSUs Backed Up: *psu\_num*, Number of Blocks Backed Up: *block\_num*

---

**RBL7043F**    **Tar format file for TMU Backup and Restore is not supported.**

**Cause:** TMU Backup and Restore feature supports SL format only.

**Response:** Unmount the current tape and mount the correct one.

---

**RBL7044I**    **Completed restore from *file* on *time*.**

**Cause:** This message reports the end of a TMU RESTORE from a destination. The restore source and the current time stamp are also shown.

---

**RBL7045E**    **Backup/Restore Failed because a query revision is active.**

**Cause:** During a checkpoint backup or restore, the database needs to be locked. The locking

operation cannot be done while a frozen query revision is active.

**Response:** Unfreeze the query revision by an ALTER DATABASE UNFREEZE QUERY REVISION and then re-attempt the operation.

---

**RBL7046I**    **Backup to directory cannot continue due to a file member in file set allocation problem.**

**Cause:** A new file member in the backup file set cannot be allocated.

**Response:** Increase the amount of disk space available for allocation. If the problem persists, contact Customer Support.

---

**RBL7047I**    **Memory allocation error.**

**Cause:** The process is running out of memory.

**Response:** Increase the amount of memory available for allocation. If the problem persists, contact Customer Support.

---

**RBL7048E**    **Backup operation failed. Another backup operation or an ALTER TABLE operation is running.**

**Cause:** A TMU backup operation failed because another backup operation or an ALTER TABLE operation is already running. A backup operation cannot run concurrently with another backup operation or an ALTER TABLE operation.

**Response:** Wait until the other backup operation or the ALTER TABLE operation has finished, then submit the command again.

---

**RBL7050F**    **Invalid backup file specification: *file*.**

**Cause:** The backup or restore operation cannot be initialized using the specified filename, directory, or media.

**Response:** Correct the specification and resubmit.



---

**RBL7051I      Backup to 'file' started on time.**

**Cause:** A BACKUP operation of the database started with the specified time stamp.

---

**RBL7052F      Cannot open backup file  
specification: file; reason code  
code2.**

**Cause:** The backup or restore file cannot be opened using the specified filename, directory, or media.

---

**RBL7053F      Backup file write error: file; reason  
code code2.**

**Cause:** Error occurred while writing to specified backup filename, directory, or media.

**Response:** Resolve the problem and resubmit.

---

**RBL7054I      Starting database restore of  
database db.**

**Cause:** This message reports the start of a TMU RESTORE operation.

---

**RBL7055I      Starting restore from file on time.**

**Cause:** This message reports the start of a TMU RESTORE from a destination. The restore source and the current time stamp are also shown.

---

**RBL7056I      Starting partial restore for  
database db for seg\_or\_psu name  
object from file on time.**

**Cause:** This message reports the start of a partial TMU RESTORE operation. The database, segment or PSU name, backup file, device, or directory, and the current time stamp are also shown.

---

**RBL7057I      Starting enforced partial restore  
for database db for seg\_or\_psu  
name object from file on time.**

**Cause:** This message reports the start of a partial TMU RESTORE operation. The database, segment or PSU name, backup file, device, or

directory, and the current time stamp are also shown. The restore operation is enforced and the consistency of the database might be compromised. Additional actions might be required to bring the database to a consistent state.

---

**RBL7058F      Backup file read error: file;  
Internal Return Code: code2,  
Internal Reason Code: code3.**

**Cause:** Error occurred while reading backup file or media. Backup file or media might be corrupted.

**Response:** Verify the integrity of the backup file or media listed. Resolve the problem and resubmit the command.

---

**RBL7061I      Backup to 'file' completed on time.**

**Cause:** A BACKUP operation to the specified destination was completed with the specified time stamp.

---

**RBL7062I      Initializing tape (volume:vol)...**

---

**RBL7063E      Backup tape CAPACITY  
parameter value is too low. The  
minimum acceptable value is 10M  
(10,240K).**

**Cause:** Minimum tape CAPACITY parameter value is 10M.

**Response:** Change the CAPACITY parameter value and resubmit.

---

**RBL7064I      The tape CAPACITY value of cap  
database blocks has been reached.**

**Cause:** Tape CAPACITY value, printed as number of database blocks (8k), has been reached. The prompt for new tape is going to be issued as soon as tape buffer is filled out.

**Response:** No response needed.



---

**RBL7065I**     The tape CAPACITY value of *cap* database blocks has been reset after end of tape was reached.

**Cause:** The tape CAPACITY value, printed as number of database blocks (8k), was set too high. The CAPACITY parameter value has been set for a new tape.

**Response:** No response needed.

---

**RBL7066I**     TMU Backup and Restore process is prematurely terminated; the database was not affected.

**Cause:** TMU Backup and Restore has been cancelled or an unrecoverable error occurred. The currently connected database was not affected.

**Response:** Resolve the problem and re-submit. If the problem persists, contact Customer Support.

---

**RBL7067E**     The database file *psu* has changed since the last backup. The FORCE option is required.

**Cause:** Restoring a database file might cause data to be lost if the file has been changed since the last backup. In this situation, the RESTORE operation requires the FORCE option.

**Response:** Consider carefully whether you want to use the FORCE operation. If you have questions concerning its results, contact Customer Support.

---

**RBL7068I**     Foreign restore process started, database *db*.

**Cause:** The message indicates that the foreign restore process is about to start.

**Response:** No response.

---

**RBL7069I**     Foreign restore process completed, database *db*.

**Cause:** The message indicates that the foreign restore process is complete.

**Response:** No response.

---

**RBL7070I**     TMU Restore process is prematurely terminated; the database is potentially corrupted.

**Cause:** TMU Restore has been cancelled or an unrecoverable error occurred. The currently connected database is not in a consistent state.

**Response:** With a partial restore, the partially restored database object (SEGMENT or PSU) should be fully restored. For a full database restore, a cold restore needs to be performed. If the problem persists, contact Customer Support.

---

**RBL7071I**     Please mount tape *vol*. Press Return when ready, or 'q' to abort:

---

**RBL7072E**     Invalid integer value specified.

**Cause:** The BAR unit size or CAPACITY parameter is incorrectly specified.

**Response:** Correct the value and resubmit.

---

**RBL7073I**     Foreign restore could not complete because a foreign backup was not done, database *db*.

**Cause:** A foreign backup must be done before a foreign restore can be started.

**Response:** Perform a foreign backup before issuing this command.

---

**RBL7074I**     The following messages contain information about the list of PSUs to be restored:

**Cause:** A RESTORE SHOW command was issued, so information about all the PSUs to be restored is displayed.

**Response:** None.

---

**RBL7075E**     Foreign restore terminated with an error, database *db*.

**Cause:** The foreign restore was not successful.

**Response:** Resolve the problem indicated by one of the previous messages and re-submit.

---

**RBL7080E Invalid unit specified.**

**Cause:** The BAR unit size or CAPACITY parameter was incorrectly specified. The acceptable units are K (kilobytes), M (megabytes), or G (gigabytes).

**Response:** Correct the unit and resubmit.

---

**RBL7081F Foreign backup of the database *db* terminated in error.**

**Cause:** The foreign backup process for the database terminated due to a fatal error.

**Response:** Resolve the problem and re-submit.

---

**RBS7082I A foreign backup process is trying to obtain a write lock on the database: *db*.**

**Cause:** The database foreign backup process needs a write lock on the specified database. Depending on the lock mode, the foreign backup process will either wait until the lock is obtained (SET LOCK WAIT), or it will do a limited number of retries (SET NO WAIT). The foreign backup process might fail with an error if the write lock cannot be obtained.

**Response:** Make sure the foreign backup process can get write locks on the specified database.

---

**RBL7083W Unable to start vacuum cleaner daemon. Vacuum cleaner daemon should be started manually.**

**Cause:** Only the redbrick user or a superuser can start the vacuum cleaner through the TMU.

**Response:** Use the ALTER DATABASE START CLEANING command to start the vacuum cleaner through RISQL.

---

**RBL7087I Backup of the database *db* completed successfully on *time*.**

**Cause:** The backup process for the database specified was completed successfully.

**Response:** No response needed.

---

---

**RBL7088I Restore of the database *db* completed successfully on *time*.**

**Cause:** The restore process for the database specified was completed successfully.

**Response:** No response needed.

---

**RBL7089I Partial restore of '*name*' completed successfully on database *db* on *time*.**

**Cause:** The partial restore process for the database specified was completed successfully.

**Response:** No response needed.

---

**RBL7090I Please mount a tape. Press Return when ready, or 'q' to abort:**

---

**RBL7091E Restore failed. Error reading backup data from backup file (*fname*).**

**Cause:** A fatal error occurred when the TMU was reading backup data from the backup file during a restore. This problem occurs when either a backup file or the rbw\_media\_history file is corrupted. If the backup file is an SL tape file, it gets corrupted if the same tape is reused by multiple valid backups, or if the tape containing the backup file is bad. If the backup file is a disk file, the backup file becomes invalid if it is manually modified or corrupted by any type of system failure. The rbw\_media\_history file gets corrupted if PSU entries in the file are incorrectly modified.

---

**RBL7099F System table files should never be partially restored, file: *file*.**

**Cause:** System table data should never be partially restored.

**Response:** Modify the TMU RESTORE statement and re-submit.

---

---

**RBS7100E**    **Operation not allowed on database: Segment *segment\_name* already exists and it contains backup data.**

**Cause:** A segment already contains the backup data for this database so another segment cannot be assigned to hold it.

**Response:** In order to assign another segment to hold the backup data, first use the ALTER DATABASE DROP BACKUP DATA command to remove the backup data and change the current backup segment to a regular segment.

---

**RBS7101E**    **Operation not allowed on a damaged segment *segment\_name*.**

**Cause:** The operation failed because the target segment is damaged.

**Response:** Use another segment or repair the segment before trying this operation again.

---

**RBS7102E**    **Operation cannot complete: Segment *segment\_name* has run out of space.**

**Cause:** The operation failed because the target segment ran out of space.

**Response:** Use the ALTER SEGMENT command to add storage or change the maximum size of the segment, then submit the command again.

---

**RBS7103E**    **Operation not allowed on database.**

**Cause:** Either the user tried to drop the backup segment or a checkpoint backup operation tried to back up the backup segment. In both cases, the backup segment did not exist in the database.

**Response:** If necessary, re-create the backup segment with an ALTER DATABASE CREATE BACKUP DATA command.

---

**RBS7104E**    **Operation not allowed on segment *segment\_name* containing backup data.**

**Cause:** This operation is not allowed on the specified segment because it is the backup segment and contains backup data.

**Response:** Check the segment name in the command.

---

**RBS7105E**    **ALTER SEGMENT *alter\_option* requires segment *segment\_name* not to contain backup data.**

**Cause:** An ALTER SEGMENT statement with an option valid only for non-backup segments was issued for the backup segment.

---

**RBS7106E**    **Cannot reinitialize backup segment after recovery: Marked backup segment as damaged.**

**Cause:** Invalid backup segment information exists in the system files. The backup segment was dropped and re-created between backup and recovery with an ALTER DATABASE command.

**Response:** Drop the backup segment and re-create it with ALTER DATABASE DROP BACKUP DATA and ALTER DATABASE CREATE BACKUP DATA commands to initialize the backup segment properly.

---

**RBS7107E**    **Cannot use segment *segment* as backup segment because it is attached to a table or index.**

**Cause:** The specified segment is in use, and is attached to a table or index.

**Response:** Use the ALTER SEGMENT command to detach the segment from the table or index. Resubmit the command.

---

**RBS7108E**    **Query execution failed because the rows of the result table (or the rows of an intermediate result table) are too large.**

**Cause:** The result table or an intermediate result table exceeded the maximum row width of 8 kilobytes.

**Response:** Rewrite the query to reduce the row size of the result table and any intermediate tables. For example, eliminate wide columns from the select list or reduce the width of character columns using the SUBSTR() function.

---

**RBS7109E**    **No space left on the tape *tape\_name* backup aborted. The total data written to the tape is *len* kilobytes.**

**Cause:** The CAPACITY value specified in the backup command exceeds the tape capacity.

**Response:** Specify 90 to 95% of the tape's uncompressed maximum storage size as the CAPACITY parameter and resubmit the command.

---

**RBL7110I**    **BACKUP\_LEVEL: *Level\_bklevel*  
MEDIA\_TYPE: *mttype*  
BACKUP\_TYPE: *bktype***

**Cause:** This message is issued as part of "restore show" command.

**Response:** No response needed.

---

**RBL7111I**    **PSU\_NAME: "*psuname*"  
MEDIA\_ID: "*mID*"  
FULL\_BACKUP: *full\_backup*  
BACKUP\_SIZE: *size*  
TIMESTAMP: *ts***

**Cause:** This message is issued as part of "restore show" command.

**Response:** No response needed.

---

**RBL7112E**    **The product version specified (*version*) in the metadata record (*record*) is not supported by the current backup/restore system.**

**Cause:** The backup/restore system supports only database versions equal to or greater than version 6.2. The product version in the displayed metadata record is not supported by the current backup/restore system.

**Response:** Check the current database version with the database version that was backed up and make sure the version matches. If the database version doesn't match, you cannot restore the database from the backup data listed in the metadata file. If the database version matches, check the metadata file to see if its content was damaged or has been modified incorrectly. If so, fix the metadata file and reissue the command.

---

**RBL7113I**    **You just mounted a wrong tape.  
Try another tape? (y/n)**

---

**RBL7114E**    **Invalid time stamp: *ts***

**Cause:** The time stamp specified is not valid. The format of a valid time stamp is: "YYYY-MM-DD.HH:MM:SS"

**Response:** Fix the time-stamp string and resubmit the command.

---

**RBL7115E**    **This backup cannot be done because a level 0 backup does not exist.**

**Cause:** A level 0 backup must be done before a level 1 or level 2 backup.

**Response:** Complete a level 0 backup first, then resubmit the backup command.

---

**RBL7116E**    **Restore failed. A foreign backup exists but no corresponding foreign restore has been done.**

**Cause:** A foreign backup was done but no foreign restore was completed before the TMU restore was started.

**Response:** Complete the foreign restore first, then resubmit the TMU restore command.

---

**RBL7117E**     **Restore failed. Current database name: *dbname*, database path: *dbpath*, or database locale: *dblocale* does not match the .dbinfo file for the database.**

**Cause:** The current database name, path, or locale does not match the contents of the .dbinfo file in the metadata directory.

**Response:** Restart the database using the correct database locale, database name, database path and reissue the command.

---

**RBL7118E**     **Restore from a tape device failed. The format of the tape device name '*name*' in the *rbw\_media\_history* file is not correct.**

**Cause:** The tape device name in the *rbw\_media\_history* file does not match the expected format. The format of a tape device name is: "logical-tape-device-name" + "\*" + "SL tape filename" + "\*" + "volume string".

**Response:** Fix the tape device name in the *rbw\_media\_history* file and resubmit the restore command.

---

**RBL7119E**     **Backup and Restore operation failed. An OS error occurred on file: *name*. OS error number is: *err*.**

**Cause:** A fatal error occurred while operating on the file shown in the error message.

**Response:** Check the OS error, fix the problem, and resubmit the command.

---

**RBL7120E**     **Backup media type is not supported.**

**Cause:** The backup media type specified in a backup and restore operation is not supported. The supported backup media types are XBSA, DIRECTORY, and TAPE DEVICE.

**Response:** Choose the correct backup media

type and resubmit the command.

---

**RBL7121E**     **Backup type is not supported.**

**Cause:** The backup type specified is not supported. The supported backup types are ONLINE and CHECKPOINT.

**Response:** Choose the correct backup type and resubmit the command.

---

**RBL7122E**     **Backup level is not supported.**

**Cause:** The backup level specified is not supported. The supported backup levels are 0, 1, and 2.

**Response:** Choose the correct backup level and resubmit the command.

---

**RBL7123E**     **Restore failed. The backup segment was not restored.**

**Cause:** The backup segment was not restored during a database restore.

**Response:** Check the *rbw\_media\_history* file and verify that the backup segment was backed up during checkpoint backups.

---

**RBL7124E**     **Partial restore failed. The segment to be restored does not exist in the current database: *name***

**Cause:** In a partial restore, the specified segment name or the segment name of the specified PSU does not exist in the current database.

**Response:** Specify the correct segment or PSU name and resubmit the restore command.

---

**RBL7125E**     **Backup and Restore operation failed. A fatal error occurred while processing the *rbw\_media\_history* file: *name/rbw\_media\_history*.**

**Cause:** A fatal error occurred on the *rbw\_media\_history* file during the backup and restore process. The corresponding metadata errors are listed.

**Response:** Check the metadata error/warning messages and fix the specified errors.

---

**RBL7126W Invalid segment *name* is not backed up.**

**Cause:** During a backup process, an invalid segment was detected. The specified segment will not be backed up.

**Response:** No response needed.

---

**RBL7127E Fatal error occurred when processing tape device configuration file: *path/tpconfig* OS error: *errno***

**Cause:** During a backup/restore process, a fatal error occurred when the TMU was trying to open/read/write the tape device configuration file. The corresponding OS error number is displayed.

**Response:** Check and correct the OS error, then reissue the command.

---

**RBL7128E Backup/restore failed. Cannot find the tape device name "*tname*" from *rbw.config* file.**

**Cause:** The logical tape device name passed to the backup/restore command is not valid. The device name cannot be found in the *rbw.config* file.

**Response:** Add the logical tape device name to the *rbw.config* file and reissue the command.

---

**RBL7129I The list of volumes required to restore current BAR unit: *vols***

---

**RBL7131E Unrecoverable backup error occurred on file: *name*. OS error number is: *err*. Database files are not affected by this failure, but subsequent incremental backups might be inconsistent.**

**Cause:** A fatal error occurred while operating on the file shown in the error message.

**Response:** Do not do any further incremental or online backups at any level until this problem is resolved. In order to resolve the problem please contact IBM support. A level 0 checkpoint backup can be initiated safely.

---

**RBL7200E Failed to create the *rbw\_media\_history* file: *path*. OS error number is: *err*.**

**Cause:** A fatal failure occurred during the creation of the *rbw\_media\_history* file. The full path of the file and OS error number are displayed.

**Response:** Correct the OS error and reissue the command.

---

**RBL7201W Cannot open or create file *filename*. Reason: *osmsg*.**

**Cause:** Could not create or open the file.

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7202W An internal I/O error occurred with file *filename*. Reason: *osmsg*.**

**Cause:** An internal I/O error occurred with the specified file.

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7203W Error setting/updating a column or record in file *filename*.**

**Cause:** Error setting/updating a column or record in file.

**Response:** Updating a column of a record could fail if the replacement text for the column is different in length from the original column in the record. Other possibilities include I/O errors, size constraints, and other OS-related problems.



---

**RBL7204W Invalid arguments used.**

**Cause:** Invalid arguments were used with a metadata file operation.

**Response:** This could be caused, for example, because both segment and PSU names were provided for a partial restore operation.

---

**RBL7205W No level 0 record was found in file *filename*.**

**Cause:** A restore operation could not proceed because a matching level 0 record was not found.

**Response:** No response required. A level 0 record must exist for the restore to proceed.

---

**RBL7206W No checkpoint record was found in file *filename*.**

**Cause:** A restore operation could not proceed because a matching checkpoint record was not found.

**Response:** No response required. A checkpoint record must exist for the restore to proceed.

---

**RBL7207W No matching record was found in the metadata file.**

**Cause:** No matching record was found in the metadata file.

**Response:** No response required.

---

**RBL7208W Could not append to file *filename*. Reason: *osmsg*.**

**Cause:** Could not append a record to the file.

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7209W Could not write to file *filename*. Reason: *osmsg*.**

**Cause:** Could not write to file.

**Response:** No response required. This message

is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7210W Could not read from file *filename*. Reason: *osmsg*.**

**Cause:** Could not read from file

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7211W Could not perform a seek operation in file *filename*. Reason: *osmsg*.**

**Cause:** Could not perform a seek operation in file.

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7212W Could not upgrade online metadata records to checkpoint in file *filename*. Reason: *osmsg*.**

**Cause:** Could not upgrade online metadata records to checkpoint.

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7213W End of file reached with file *filename*. Reason: *osmsg*.**

**Cause:** End of file reached with specified file.

**Response:** No response required. This message is usually accompanied by the original OS error message. If the original problem cannot be rectified, contact Customer Support.



---

**RBL7214W Database name different from information in file *filename*.**

**Cause:** The name of the database in the .dbinfo file has changed since the last backup.

**Response:** Database names should not be changed between backups or restores.

---

**RBL7215W Database path different from information in file *filename*.**

**Cause:** The database path (physical location) in the .dbinfo file has changed since the last backup.

**Response:** No response required. Database paths should not be changed between backups or restores.

---

**RBL7216W Database locale different from information in file *filename*.**

**Cause:** The database locale in the .dbinfo file has changed since the last backup.

**Response:** No response required. Database locales should not be changed between backups or restores.

---

**RBL7217W Failed to make a copy of *rbw\_media\_history* file. Reason: *osmsg***

**Cause:** During a database restore with "AS OF <timestamp>" option, *rbw\_media\_history* file will be copied under the same directory. TMU failed to copy this file. OS error is displayed.

**Response:** No response required.

---

**RBL7218I Copy file *path* to *path*.**

**Cause:** During a database restore with "AS OF <timestamp>" option, *rbw\_media\_history* file will be copied under the same directory. The name of the new copied file is displayed.

**Response:** No response required.

---

**RBL7251F Fatal XBSA error occurred. BAR operation cannot continue.**

**Cause:** Severe error occurred during backup or restore processing.

**Response:** No response required. This message is usually preceded by the original error message. If the original problem cannot be rectified, contact Customer Support.

---

**RBL7252W Failure in loading shared library or DLL *file\_name*. Reason: *string***

**Cause:** A shared library or DLL file could not be loaded.

**Response:** Check for other OS-related messages. Check that the library is installed properly with the correct access permissions. Ensure that LD\_LIBRARY\_PATH, LIBPATH (AIX), SHLIB\_PATH (HP), or PATH (for NT) is set correctly, if needed.

---

**RBL7253W Failure in loading symbol *sym\_name* in shared library or DLL. *string***

**Cause:** That particular symbol could not be loaded from a shared Library or DLL.

**Response:** Check for other OS-related messages. Check that the correct library is being used.

---

**RBL7254W XBSA library name not specified in *file*.**

**Cause:** XBSA library name not specified or commented out in the configuration file.

**Response:** Enter or uncomment the library entry in the configuration file.

---

**RBL7255W XBSA SM\_USER entry not specified in *file*.**

**Cause:** XBSA SM\_USER entry not specified or commented out in the configuration file.

**Response:** Enter or uncomment the SM\_USER entry in the configuration file.

---

**RBL7256W**    **XBSA SM entry not specified in file.**

**Cause:** XBSA SM entry not specified or commented out in the configuration file.

**Response:** Enter or uncomment the SM entry in the configuration file.

---

**RBL7257E**    **XBSA setup and/or initialization failed.** *xbসা\_msg*

**Cause:** XBSA setup or initialization failed.

**Response:** Check XBSA parameters and the storage manager setup and connectivity. Also check your storage manager's logs for diagnostic information.

---

**RBL7258W**    **Loading XBSA library file failed.**

**Cause:** The XBSA library specified in the configuration file could not be loaded.

**Response:** Check for any OS-related messages. Also see message 7252.

---

**RBL7259W**    **Loading XBSA symbols from XBSA shared library/DLL file failed.**

**Cause:** Some or all XBSA symbols could not be loaded from the library specified in the configuration file.

**Response:** Check for other OS-related messages. Check that the correct library is being used. Also see message 7253.

---

**RBL7260W**    **XBSA open for write setup failed.** *xbসা\_msg*

**Cause:** The backup and restore session could not set up an XBSA open for a backup operation. Possible problems include failure to initiate an XBSA transaction, or failure to create an XBSA object in the storage manager.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7261W**    **XBSA open for read setup failed.** *xbসা\_msg*

**Cause:** The backup and restore session could not set up an XBSA open for a restore operation. Possible problems include failure to initiate an XBSA transaction, or failure to locate an XBSA object in the storage manager.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7262W**    **XBSA write operation failed.** *xbসা\_msg*

**Cause:** The backup and restore session could not perform an XBSA write operation.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7263W**    **XBSA read operation failed.** *xbসা\_msg*

**Cause:** The backup and restore session could not perform an XBSA read operation.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7264W**    **XBSA transaction commit failed.** *xbসা\_msg*

**Cause:** The backup and restore session could not commit an XBSA transaction.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7265W**    **XBSA session termination failed.** *xbসা\_msg*

**Cause:** The backup and restore session could not terminate an XBSA session.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7266W** Failed to get the copyID for an XBSA object. *xbsa\_msg*

**Cause:** The backup and restore session could not commit an XBSA transaction.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBL7267W** An unknown error occurred. An XBSA operation failed. *xbsa\_msg*

**Cause:** The backup and restore session encountered an unknown XBSA error.

**Response:** Check for any XBSA-specific error messages. Also check the storage manager logs.

---

**RBS7501E** Name defined by CREATE TEMPORARY TABLE already exists.

**Cause:** A base table, synonym, view, or another temporary table with the same name as that specified in the CREATE TEMPORARY TABLE syntax already exists.

**Response:** Choose another table name and resubmit the CREATE TEMPORARY TABLE statement.

---

**RBS7502E** Referenced table '*table\_name*' is a temporary table.

**Cause:** The FOREIGN KEY clause of a CREATE TABLE statement referenced a temporary table. Only base tables can be referenced.

**Response:** Correct the SQL statement to reference only base tables and resubmit it.

---

**RBS7503E** Invalid CREATE TEMPORARY TABLE specification.

**Cause:** The CREATE TEMPORARY TABLE specification was invalid. An attempt was made to create a temporary table that either had a FOREIGN KEY clause specification, a data/primary key index segmentation specification, or a MAXSEGMENTS or MAXROWS PER SEGMENT specification.

**Response:** Correct and resubmit the CREATE TEMPORARY TABLE statement.

---

**RBS7504E** STAR index cannot be created on temporary table '*table\_name*'.

**Cause:** The CREATE STAR INDEX statement was used to create a STAR index on a temporary table. A STAR index can be created only on permanent base tables.

**Response:** Do not create STAR indexes on temporary tables.

---

**RBS7505E** Index with segmentation specification created on temporary table.

**Cause:** An index with segmentation specification was created on a temporary table. The CREATE INDEX statement for an index on a temporary table cannot contain a segmentation specification.

**Response:** Correct and resubmit the CREATE INDEX statement.

---

**RBS7506E** ALTER INDEX command is not supported on temporary table indexes.

**Cause:** An ALTER INDEX command was specified on a temporary table index. This operation is not supported for temporary tables.

**Response:** Verify that you specified the correct index name. Correct and resubmit the statement.

---

**RBS7507E** ALTER SEGMENT command is not supported on data or index segments for temporary tables.

**Cause:** An ALTER SEGMENT command was specified on a temporary table or an index on a temporary table. This operation is not supported for temporary tables and their indexes.

**Response:** Verify that you specified the correct segment name and table or index name. Correct and resubmit the statement.

---

**RBS7508E    Insufficient authority to create temporary object.**

**Cause:** The user who issued the CREATE TEMPORARY TABLE or CREATE INDEX statement did not have the required authority. To create a temporary table or an index on a temporary table, the user must be a member of the DBA or RESOURCE system roles, or have one of the following: authorization to create temporary objects via the GRANT\_TEMP\_RESOURCE\_TO\_ALL option parameter, CREATE\_ANY authorization, CREATE\_OWN authorization, or TEMP\_RESOURCE authorization.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS7509E    Privileges may not be granted or revoked on temporary tables.**

**Cause:** A GRANT or REVOKE statement attempted to grant or revoke one or more ALL, INSERT, SELECT, DELETE, and UPDATE privileges on a temporary table. A temporary table cannot be the target of a GRANT or REVOKE statement with any privileges.

**Response:** Do not issue GRANT or REVOKE statements on temporary tables.

---

**RBS7510E    LOCK is not allowed on a temporary table.**

**Cause:** An attempt was made to explicitly lock a temporary table. This option applies only to base tables and model tables. It cannot be specified for temporary tables.

**Response:** Do not issue explicit LOCK commands on temporary tables.

---

**RBS7511E    A temporary table cannot be locked with the FOR DELETE option.**

**Cause:** A LOCK statement with the FOR DELETE option was issued against a temporary table. This option applies only to base tables. It cannot be specified for temporary tables.

**Response:** Do not issue any explicit LOCK commands on temporary tables.

---

**RBS7512E    Maximum number of temporary segments exceeded.**

**Cause:** The maximum number of temporary segments that can be created in a session has been exceeded.

**Response:** Reduce the number of temporary tables or indexes created in any one session.

---

**RBS7513E    CREATE VIEW references a temporary table.**

**Cause:** A CREATE VIEW statement specified a temporary table in the query expression. Views cannot reference temporary tables.

**Response:** If you need to create a view, use a base table instead a temporary table.

---

**RBA7514E    Maximum number of usable segments exceeded.**

**Cause:** A CREATE TABLE, CREATE INDEX, CREATE SEGMENT, ALTER TABLE, or offline load operation attempted to create a named or default segment. However, the limit on the number of segments that can be created in a database has been reached. A maximum of 61440 base table segments can exist in the database at any time.

**Response:** Determine whether any tables, indexes, or segments can be dropped from the current database.

---

**RBS7515E    Maximum number of usable indexes exceeded.**

**Cause:** A CREATE TABLE or CREATE INDEX statement attempted to create a new index. However, the limit on the number of indexes that can be created in a database has been reached. A maximum of 2.5 billion base table indexes can exist in the database at any time.

**Response:** Determine whether any indexes and/or tables can be dropped from the current database.

---

**RBS7516E     Maximum number of usable constraints exceeded.**

**Cause:** An attempt was made to add a primary or foreign key constraint to a table. However, the limit on the number of constraints that can be created in a database has been reached. A maximum of 2.5 billion base table constraints can exist in the database at any time.

**Response:** Determine whether any tables and/or constraints can be dropped from the current database.

---

**RBS7518E     Current PSU EXTENDSIZE value (number KB) exceeds the PSU MAXSIZE (number).**

**Cause:** The current EXTENDSIZE of the PSU is greater than its MAXSIZE.

**Response:** Set the EXTENDSIZE of the PSU to be smaller than the current PSU MAXSIZE.

---

**RBS7519E     Invalid unit *string* in *string*. Valid units are k (Kilobytes), m (Megabytes) and g (Gigabytes).**

**Response:** Change the unit in the rbw.config file or by using a SET command.

---

**RBS7520E     Default segment size is outside the valid range of 16K and 512G.**

**Response:** Change the default segment size in the rbw.config file or by using a SET command.

---

**RBS7521E     Default PSU extend size is outside the valid range of 0 and 2G.**

**Response:** Change the value in the rbw.config file or by using a SET command.

---

**RBS7525E     Index would be invalidated but INVALIDATE is not specified.**

**Cause:** ALTER SEGMENT ATTACH TO INDEX requires an INVALIDATE specification if no range is specified for the new segment. If no range is specified, the index is marked invalid.

The segment ranges are recalculated when a REORG is done.

**Response:** Specify a valid range, or specify INVALIDATE if invalidating the index is acceptable.

---

**RBS7526E     INVALIDATE cannot be used when attaching or detaching a table segment.**

**Cause:** ALTER SEGMENT (ATTACH TO or DETACH FROM) TABLE statement had INVALIDATE specified. This can only be used when attaching a segment to or detaching a segment from a non-local index segment.

**Response:** Remove the INVALIDATE specification and re-attempt.

---

**RBS7527E     Cannot use the RANGE (...) clause to attach segment *segment\_name*.**

**Cause:** You cannot attach a segment with a specific range to this index. Either the index is a local index, or it is not segmented by range.

**Response:** If the index is a local index, you need to use the RANGE LIKE SEGMENT clause to attach the segment. If the index is not segmented, you need to use the ALTER SEGMENT... SEGMENT BY statement to segment the index.

---

**RBS7528F     Evaluation period has expired or using old database with evaluation software.**

**Cause:** The software is being used beyond the evaluation period or an existing database is being used with evaluation software.

**Response:** Obtain a run-time license to run the software.

---

**RBS7529E**    **The attach operation requires movement of data from segment *segment\_name*, which would invalidate the index, but INVALIDATE is not specified.**

**Cause:** The ATTACH SEGMENT command required data to move from one segment to another. Changing the range of a segment by attaching cannot involve this kind of data movement. The INVALIDATE keyword must be specified if data movement is required and it is acceptable to invalidate the index.

For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. Also assume that there is data with value 50 in segment A. Attaching a segment D with range MIN:60 is not allowed because this would move the data value 50 from segment A into segment D.

**Response:** Correct the range or specify INVALIDATE and resubmit the command.

---

**RBS7530E**    **The detach operation would invalidate the index, but INVALIDATE is not specified.**

**Cause:** The index segment which is being detached is not empty. If the segment is detached, rows in the table would not have corresponding entries in the index. This lack of corresponding entries would violate the integrity of the index to the table, and the index should be invalidated. However, the user has not specified the invalidate clause, which indicates that invalidating the index is acceptable.

**Response:** Delete the rows from the table that correspond to this segment of the index, or specify INVALIDATE if invalidating the index is acceptable.

---

**RBL8003E**    **Table *table\_name* cannot be loaded because the primary key index has been dropped.**

**Cause:** The primary key index has been dropped.

**Response:** Recreate the primary key index.

---

**RBL8004E**    **Table *table\_name* cannot be loaded in UPDATE or MODIFY mode because it lacks a primary key.**

**Cause:** The primary key index has been dropped.

**Response:** Recreate the table with a primary key index or use the SQL UPDATE command.

---

**RBL8005W**    **Row number *number* in segment '*segment\_name*' in table '*table\_name*' has been deleted.**

**Cause:** The TMU referenced a row that no longer exists, which indicates an inconsistency in the database. Possible causes are use of the OVERRIDE REFCHK clause or an internal error.

---

**RBL8006E**    **Offline load terminated because segment *segment\_name* is full or the filesystem is full.**

**Cause:** During an offline load into a segment, the space available for new data was exhausted. A possible cause is that the working space segment is full.

**Response:** If the working space segment is full, use ALTER SEGMENT ... CLEAR on the offline segment followed by ALTER SEGMENT CHANGE MAXSIZE on the working space segment and resubmit the LOAD DATA statement.

---

**RBL8007W**    **End of file error while synchronizing segment *segment\_name* with *table\_name*.**

**Cause:** End of file error detected. A possible cause is that the offline segment or the working space segment ran out of space during the offline LOAD operation.

**Response:** If the offline segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the working space segment ran out of space, use the ALTER SEGMENT ... CLEAR on the offline segment



followed by ALTER SEGMENT CHANGE MAXSIZE on the working space segment. If the filesystem is full, increase disk space or delete unnecessary files. After making the necessary changes, resubmit the LOAD DATA statement.

---

**RBL8008I      Automatic Row Generation is DEFAULT.**

**Cause:** Indicates that the AUTOROWGEN feature is set to DEFAULT for the current LOAD DATA operation. The TMU responds to referential integrity failures by attempting to set the foreign key value in the input row record to match the default value of the foreign key column in the referencing table, instead of discarding input rows or inserting automatically generated rows into the referenced tables.

**Response:** Review processed input rows when the LOAD DATA operation is complete.

---

**RBL8009I      Automatic Row Generation is SELECTIVE.**

**Cause:** Indicates that the AUTOROWGEN feature is selective for the current LOAD DATA operation. Referenced tables not specified in the AUTOROWGEN clause of the LOAD DATA statement have a default setting of OFF and rows that fail referential integrity are discarded.

If AUTOROWGEN is set to ON for a referenced table, the TMU responds to referential integrity failures by attempting to insert automatically generated rows in referenced tables.

If AUTOROWGEN is set to DEFAULT for a referenced table, the TMU responds to referential integrity failures by attempting to set the foreign key value in the input row record to match the default value of the foreign key column in the referencing table, instead of discarding input rows or inserting automatically generated rows into the referenced tables.

**Response:** Review processed input rows and/or automatically generated rows when the LOAD DATA operation is complete.

---

**RBL8010E      AUTOROWGEN cannot proceed because table or synonym 'table\_name' is not directly referenced by table 'table\_name'.**

**Cause:** A selective AUTOROWGEN clause has been specified in the LOAD DATA statement; however, the table or synonym specified is not directly referenced by the table being loaded.

**Response:** Correct the AUTOROWGEN clause to include only the names of referenced tables or synonyms.

---

**RBL8011E      Table 'table\_name' is specified more than once in the AUTOROWGEN clause of the LOAD DATA statement.**

**Cause:** A selective AUTOROWGEN clause has been specified in the LOAD DATA statement; however, a referenced table name has been specified more than once.

**Response:** Specify the referenced table name only once for the required AUTOROWGEN mode.

---

**RBL8012I      AUTOROWGEN DEFAULT processing on row number for table table\_name with default foreign key value string.**

**Cause:** Indicates that the AUTOROWGEN feature used DEFAULT processing on the input row for the referenced table that failed referential integrity. The default value of the foreign key in the referencing table is displayed; a valid row with this value must exist in the referenced table to satisfy referential integrity.

**Response:** After the LOAD operation completes, review all default processed rows.



---

**RBL8013W**    **Unable to process  
AUTOROWGEN DEFAULT for  
table *table\_name* because column  
column\_name does not have a  
default value specified.**

**Cause:** Indicates that the AUTOROWGEN feature attempted to use DEFAULT processing for the indicated table in order to satisfy referential integrity; however, the default value for the foreign key column is NULL because no default value was defined for the column.

**Response:** The referencing row is discarded; it is written to the discard file if one was specified for the LOAD DATA operation.

---

**RBL8014W**    **AUTOROWGEN has conflicting  
modes on a referenced dimension.**

**Cause:** Indicates that the Automatic Row Generation feature has been specified ON on a certain dimension via cascaded foreign key-primary key relationships to a referenced table that has AUTOROWGEN ON specified. However, this table is also directly referenced by the table being loaded into, and the AUTOROWGEN mode has been either specified DEFAULT or is OFF.

**Response:** The referencing row is discarded.

---

**RBL8016W**    **Parallel TMU fork failure. Trying  
to load with *actual\_tasks* tasks, not  
calculated *calc\_tasks*.**

**Cause:** Indicates that the calculated number of processes could not be forked, but the operation is proceeding with fewer processes.

**Response:** Evaluate the operating-system configuration to determine why the calculated number of processes could not be forked.

---

**RBL8017W**    **Parallel TMU failed to fork  
minimum number of parallel  
processes. Proceeding in SERIAL  
mode.**

**Cause:** Indicates that the minimum number of processes (4) for a parallel load operation could

not be forked. The operation is proceeding in serial mode.

**Response:** Evaluate the operating-system configuration to determine why the minimum number of processes could not be forked.

---

**RBL8018W**    **Rolling back rows to a consistent  
block.**

**Cause:** Indicates the LOAD operation has terminated and rows are being rolled back to a consistent state.

---

**RBL8019W**    **Invalidating all indexes for table  
*table\_name*.**

**Cause:** Indicates that the table was not loaded properly, and all indexes for the table are being marked invalid.

**Response:** This message will be followed by another message with specific information about the failure.

---

**RBL8020W**    **RI\_DISCARDFILE not allowed on  
table '*table\_name*'.**

**Cause:** The RI\_DISCARDFILE clause is not allowed on tables that do not reference any other tables.

**Response:** Remove the RI\_DISCARDFILE clause from the LOAD DATA statement.

---

**RBL8021E**    **Table '*table\_name*' specified in  
RI\_DISCARDFILE is not directly  
referenced by table '*table\_name*'.**

**Cause:** The RI\_DISCARDFILE clause has been specified in the LOAD DATA statement. However, the table name specified is not directly referenced by the table being loaded.

**Response:** Correct the referenced table name in the RI\_DISCARDFILE clause of the LOAD DATA statement.

---

**RBL8022E**    **Unable to unload more than  
number rows with one unload  
statement.**

**Cause:** An UNLOAD operation on a table or list of segments cannot write out more than the specified number of rows with a single UNLOAD operation.

**Response:** Rewrite the command as several unload-by-segment operations.

---

**RBL8023W**    **Any existing rows in tables that  
reference table *tablename* may now  
be invalid.**

**Cause:** A table that has tables referencing it is being loaded in REPLACE mode; this mode invalidates any rows in the referencing tables.

**Response:** Either reload or perform a REORG operation on the referencing tables.

---

**RBL8024E**    **Cannot load table because  
referenced table *reftab*'s primary  
key has been dropped.**

**Cause:** The primary key of the referenced table has been dropped. Tables that lack a primary key cannot be checked for referential integrity. If AUTOROWGEN is on, the referenced table might be referenced indirectly.

**Response:** Recreate the dropped primary key.

---

**RBL8025E**    **Cannot load table because  
referenced table *reftab*'s primary  
key index is not a BTREE.**

**Cause:** The primary key of the referenced table has been dropped, and a STAR index has been created in its place. Tables that lack a primary B-TREE index cannot be checked for referential integrity. If AUTOROWGEN is on, the referenced table might be referenced indirectly.

**Response:** Recreate the dropped primary key.

---

**RBL8026E**    **Cannot use a WHERE clause  
when unloading to a tape using  
TAR format.**

**Cause:** A table cannot be unloaded to a tape in tar format while using a WHERE clause.

**Response:** Either remove the WHERE clause or use standard label tape format.

---

**RBL8027W**    **Row counters roll over each time  
the TMU reaches 2^32 rows.**

**Cause:** Because the TMU uses 4-byte UInts for counters, the counters roll over at 2^32 rows.

**Response:** Break up the load into pieces that are less than 2^32 rows.

---

**RBL8028E**    **Cannot use an abbreviated  
AM/PM mask specifier.**

**Cause:** A mask specifier for a Datetime field cannot use the abbreviated A format for non-English locales.

**Response:** Change the mask specifier to AM.

---

**RBL8029E**    **Pipe commands not allowed with  
ROWMESSAGES clause.**

**Cause:** A ROWMESSAGES clause specification started with the UNIX pipe character.

**Response:** Remove the pipe command from the rowmessages filename.

---

**RBL8030F**    **Could not open rowmessages file  
*file\_name*.**

**Cause:** A rowmessages file could not be opened as specified. Execution cancelled.

**Response:** Check for an error in the file definition syntax. Correct the error and resubmit the command.

---

**RBL8031F**     **Error on removal of temp rowmessages *filename*. OS Errno = *errno*.**

**Response:** The unlink() system call of a temp file failed. Check the operating system code and correct the problem.

---

**RBL8032W**     **Could not close a discard file**

**Cause:** A discard file could not be closed. Execution cancelled.

**Response:** Determine if the file size exceeds either the maximum file size or the process' file size limit.

---

**RBL8033F**     **Could not close an output file**

**Cause:** An output file could not be closed. Execution cancelled.

**Response:** Determine if the file size exceeds either the maximum file size or the process' file size limit.

---

**RBL8034F**     **Could not close a DDLFILE**

**Cause:** A DDLFILE could not be closed. Execution cancelled.

**Response:** Determine if the file size exceeds either the maximum file size or the process' file size limit.

---

**RBL8035F**     **Could not close a TMUFILE**

**Cause:** A TMUFILE could not be closed. Execution cancelled.

**Response:** Determine if the file size exceeds either the maximum file size or the process' file size limit.

---

**RBL8036W**     **Unable to write to discard file '*file\_name*'.**

**Cause:** The UNIX file size resource limit was not set to the maximum allowed value. This smaller limit can cause a load to fail with an out-of-space error even though there is physical space available.

**Response:** Contact the UNIX system administrator; If you are on a 64-bit operating system, ensure that your filesystems are enabled for largefiles. If they are not, you may have to increase the filesize resource limit for the user ID running the TMU. 32-bit systems do not presently support discard files 2GB or greater.

---

**RBL8037F**     **Could not close file: '*file\_name*', *error***

**Cause:** A file could not be closed. Execution cancelled.

**Response:** Determine if the file size exceeds either the maximum file size or the process' file size limit, or whether the file system is full.

---

**RBL8038W**     **Parallel TMU MAX task limit of *max\_procs* exceeded. Trying to load with *actual\_tasks* tasks.**

**Cause:** Indicates that the calculated number of processes exceeded an internal parallel TMU limit, but the operation is proceeding with fewer processes.

**Response:** Re-evaluate your CONVERSION TASKS AND INDEX TASKS settings.

---

**RBL8039E**     **Error accessing work segment *segment\_name*.**

**Cause:** An offline LOAD operation specified a work segment that could not be accessed. This may happen, if the work segment has corrupted or missing PSUs, or if there were I/O errors.

**Response:** Make sure that the PSUs for this work segment exist and are accessible.

---

**RBL8040E**     **String delimiter must be one character in length.**

**Cause:** The string delimiter must be one character in length. Load terminated.

**Response:** Correct the LOAD DATA statement.

---

**RBL8041E**    **RADIX POINT 'character' cannot be the same as the ENCLOSED BY character.**

**Cause:** The RADIX POINT character must be different from the ENCLOSED BY character.

**Response:** Correct the error and resubmit the command.

---

**RBL8042E**    **Invalid ENCLOSED BY character.**

**Cause:** The ENCLOSED BY character is not supported.

**Response:** Correct the error and resubmit the command.

---

**RBL8043E**    **ENCLOSED BY character 'character' cannot match any SEPARATED BY character.**

**Cause:** The ENCLOSED BY character must be different from the SEPARATED BY character. If the SEPARATED BY specification consists of multiple characters, none of those characters is allowed to match the ENCLOSED BY character.

**Response:** Change the ENCLOSED BY character and submit the command again.

---

**RBL8044W**    **Data does not start with ENCLOSED BY character. Row number. Column name: column\_name.**

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL8045W**    **Data does not end with ENCLOSED BY character or no escape character is included. Row number. Column name: column\_name.**

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL8046W**    **Encountered end of row before ENCLOSED BY character. Row number. Column name: column\_name.**

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

---

**RBL8200E**    **Regular column references are not allowed in expressions.**

**Cause:** A regular column is referenced in an expression in the input column specification. A regular column reference implies data in an existing table column.

**Response:** This functionality is not supported. Only pseudocolumns and literals are allowed in an input column specification.

---

**RBL8201E**    **The datatypes of THEN clauses in CASE expressions must be comparable.**

**Cause:** All datatypes used within CASE expression THEN clauses must be comparable. For example, it is illegal to have one CASE expression THEN clause return a character value and another THEN clause return a floating-point value. Because there is no implicit conversion between these two datatypes, the two expressions cannot be compared.

**Response:** Ensure that all THEN clause expressions within a CASE expression have datatypes that can be compared.

---

**RBL8202E**    **CASE expressions must contain at least one THEN or ELSE clause that is not NULL.**

**Cause:** All of the THEN clauses and the ELSE clause in a CASE expression contained NULL values.

**Response:** Rewrite the CASE expression so that

at least one of the THEN or ELSE clauses contains a value that is not NULL.

---

**RBL8203E**    **Operand of LIKE must be a single-column or pseudocolumn reference.**

**Cause:** Only column and pseudocolumn values can be compared in a LIKE clause.

**Response:** Rewrite the LIKE clause and submit the command again.

---

**RBL8204E**    **Operand in an expression must be a literal, a pseudocolumn, or a regular column.**

**Cause:** An expression for an input column contained an illegal operand.

**Response:** Make sure the operands in the expression are literals, pseudocolumns, or regular columns, then submit the command again.

---

**RBL8205E**    **Illegal float literal *string* specified in an expression.**

**Cause:** An illegal value was supplied in an expression in an input column specification.

**Response:** Make sure a valid float literal is specified and submit the LOAD DATA command again.

---

**RBL8206E**    **A regular column was specified in an ACCEPT/REJECT clause with multiple conditions.**

**Cause:** A regular column cannot be specified in an ACCEPT/REJECT clause that contains multiple conditions. If the clause has only one condition, a regular column can be used.

**Response:** Modify the ACCEPT/REJECT clause and submit the command again.

---

**RBL8207E**    **The target pseudocolumn *pseudocolumn* cannot be assigned an expression that contains the same pseudocolumn.**

**Cause:** The target pseudocolumn specified in the message is followed by an expression that references the same pseudocolumn. Recursive pseudocolumn definitions, such as \$X \$X+5, are not allowed.

**Response:** Rewrite the expression and submit the command again.

---

**RBL8208F**    **Pseudocolumn *pseudocolumn* has not been defined as a target column in the LOAD DATA statement.**

**Cause:** A pseudocolumn must be defined before it can be specified in an expression in a LOAD DATA statement.

**Response:** Correct the LOAD DATA statement and submit the command again.

---

**RBL8500E**    **Not all PTMU input/output processes were able to register with directory services.**

**Cause:** Possible causes are: (1) the PTMU is unable to spawn a process; (2) the process died before registration; (3) a TCP/IP communication problem exists.

**Response:** Check the configuration for process manager.

---

**RBL8501E**    **Could not create resources for data exchange.**

**Cause:** The PTMU could not get TCP/IP resources.

**Response:** Verify that the node is up and the switch is working.

---

**RBL8502E**    **Problem in sending a message to exchange endpoint** *number*, **error** *number*, **error data** *number*.

**Cause:** Exchange failed to send a message to endpoint. The reason is specified in the error number message.

**Response:** Verify that the node is up and no other communication problems exist.

---

**RBL8503E**    **Problem in receiving a message from endpoint** *number*, **error** *number*, **error data** *number*.

**Cause:** Exchange failed to receive a message. The reason is specified in the error number message.

**Response:** Verify that the node is up and no other communication problems exist.

---

**RBL8504E**    **Communication problems, connection dropped, endpoint** *number*, **reason** *number*, **errdata** *number*.

**Cause:** Exchange call detected a connection drop.

**Response:** Verify that the node is up and no other communication problems exist.

---

**RBL8505E**    **Problem in processing directory services message.**

**Cause:** Internal error in processing directory services request.

**Response:** Record what you were doing and contact Customer Support.

---

**RBL8506E**    **Exchange endpoint not found in the list.**

**Cause:** Internal error: Endpoint not found on registered list.

**Response:** Check for a communication problem or contact Customer Support.

---

**RBL8507E**    **Invalid message type.**

**Cause:** Internal error: Detected invalid message type.

**Response:** Record what you were doing and contact Customer Support.

---

**RBS8508S**    *stat\_timetype\_string* **cp time**,  
*time\_string* **tot cp time**, **Logical**  
**Reads/Writes:***number/numberstat*.

**Cause:** Full statistic messages have been enabled for the PTMU. This message contains statistical information about the command. There might be platform-specific information following the Logical Reads/Writes information.

**Response:** None necessary.

---

**RBS8509S**    *stat\_timetype\_string* **cp time**,  
**Logical IO count=***numberstat*.

**Cause:** This message contains statistical information about the command. There might be platform-specific information following the Logical I/O count.

**Response:** None necessary.

---

**RBL8510E**    **PTMU input process was unable to register.**

**Cause:** The PTMU was unable to spawn the input process or the process died before registration.

**Response:** Check the process manager configuration or look for TCP/IP communication problems.

---

**RBL8511E**    **PTMU processes were unable to send acknowledgment.**

**Cause:** One or more PTMU processes did not send an acknowledgment for exit request.

**Response:** Look for TCP/IP communication problems or contact Customer Support.

---

**RBL8513F**    **The PTMU does not support**  
*load\_mode* **mode.**

**Response:** Use the TMU for this mode.

---

**RBL8514E**    **One or more PTMU processes**  
**failed to abort.**

**Cause:** Possible causes are that the process is in a loop, or a TCP/IP communication problem exists.

**Response:** Save the error messages and contact Customer Support.

---

**RBL8515W**    **Unable to kill process** *number* **on**  
**node** *host\_name*

**Cause:** Possible causes are that the process was not running when the PTMU was interrupted/timed out, or the process manager or kill command failed.

**Response:** Try to kill process manually.

---

**RBL8516F**    **The PTMU does not support**  
**'command\_name' command.**

**Response:** Use the TMU for this functionality.

---

**RBL8517I**    *Number* **duplicate rows already**  
**rolled back by the rollback**  
**mechanism.**

**Cause:** Since the rows had been already rolled back, the duplicate removal code cannot find them.

---

**RBL8520F**    **Error on removal of temp**  
**discardfile** *filename*. **OS Errno =**  
*errno*.

**Cause:** The unlink() system call of a temp file failed.

**Response:** Check the operating system code and correct the problem.

---

**RBL8521W**    **PTMU in Modify/Update modes**  
**does not support combination of**  
**pseudo and regular column in**  
**ACCEPT/REJECT clause.**  
**Proceeding in SERIAL mode.**

**Cause:** An ACCEPT/REJECT clause with a combination of pseudo- and regular columns is not supported in the PTMU MODIFY/UPDATE mode.

**Response:** Use the TMU for this functionality.

---

**RBL8550I**    **User cancelled TMU operation.**

**Cause:** The TMU received a cancellation event from the user on a Windows system.

**Response:** None necessary. The TMU will clean up the LOAD operation in progress and then terminate.

---

**RBL8551W**    **TMU row-level messages mode is**  
**NONE.**

**Cause:** The TMU\_ROW\_MESSAGES is NONE. Row-level messages will not be printed.

**Response:** If messages are desired, set TMU\_ROW\_MESSAGES to FULL.

---

**RBL8552F**    **Current installation has been**  
**upgraded past the current offline**  
**load.**

**Cause:** The offline load was done in a version pre-dating the SYNC operation. The SYNC operation cannot be performed.

**Response:** To perform the SYNC operation, use an older version.

---

**RBL8553W**    **Insufficient resources to memory**  
**map primary key index** *indexname*  
**of table** *tablename*.

**Cause:** To enhance performance, an attempt was made to access the primary key index of a referenced table by mapping its index files into the process memory space. This attempt failed due to resource limitations, most likely limitations on virtual memory usage. The named



primary key index will instead be accessed using the buffer cache, which may degrade performance somewhat. This happens most often when a referenced table has a very large primary key index.

**Response:** If the primary key indexes on tables referenced by the operation are not very large, you may be able to increase resource limits to allow more and/or larger files to be accessed via memory mapping. For example, the C shell command 'limit vmemoryuse unlimited' or the Bourne shell command 'ulimit' can be used on some UNIX platforms to increase the amount of virtual memory available to a process.

---

**RBL8554I Loading table *table\_name* in parallel mode.**

**Cause:** This message is issued when the TMU begins processing input records for a LOAD DATA operation in parallel mode. The table name of the target table is indicated.

**Response:** None necessary.

---

**RBL8555I Data-loading mode is *load\_mode*.**

**Cause:** This message indicates the data-loading mode: APPEND, INSERT, REPLACE, MODIFY, or UPDATE.

**Response:** None necessary.

---

**RBL8556I TMU is reading data from stdin.**

**Cause:** This message indicates that the input is being read from stdin.

**Response:** None necessary.

---

**RBL8557I Loading in OFFLINE mode.**

**Cause:** This message indicates that the load is in OFFLINE mode.

**Response:** None necessary.

---

**RBL8558W Insufficient resources to memory map segment *segname* of primary key index *indexname* of table *tablename*.**

**Cause:** To enhance performance, an attempt was made to access the primary key index of a referenced table by mapping its index files into the process memory space. While trying to map the files in the named segment, this attempt failed, due to resource limitations, most likely on virtual memory usage. The named segment of the primary key index will instead be accessed using the buffer cache, which may degrade performance somewhat. This happens most often when a referenced table has a very large primary key index.

**Response:** If the primary key indexes on tables referenced by the operation are not very large, you may be able to increase resource limits to allow more and/or larger files to be accessed via memory mapping. For example, you can use the C shell command 'limit vmemoryuse unlimited' or the Bourne shell command 'ulimit' on some UNIX platforms to increase the amount of virtual memory available to a process.

---

**RBL8561I Index *indexname* of table *tablename* is *number* percent memory mapped.**

**Cause:** To enhance performance, an attempt was made to access the primary key index of a referenced table by mapping its index files into the process memory space. Only the percentage of the index shown was memory mapped; 100% indicates the index was mapped in its entirety. If it is not 100%, the remaining part of the named primary key index will instead be accessed using the buffer cache, which may degrade performance somewhat. This is most likely to happen when a referenced table has a very large primary key index.

**Response:** If the primary key indexes on tables referenced by the operation are not very large, you may be able to increase resource limits to allow more and/or larger files to be accessed via memory mapping. For example, you can use the C shell command 'limit vmemoryuse unlimited'

or the Bourne shell command 'ulimit' on some UNIX platforms to increase the amount of virtual memory available to a process.

---

**RBL8562W**    **TMU process memory allocation might exceed *msg\_mem* GB. The TMU could terminate. Memory allocation estimation- Index Mmap: *number*MB, TMU Buffers: *number*MB, Index Threshold: *number*MB.**

**Cause:** On Windows platforms, process memory is limited to 2GB unless the /3GB switch is turned on in the boot.ini file. This message indicates that memory allocation could exceed 1.6GB (without the /3GB switch) or 2.4GB (with the /3GB switch). The TMU might terminate because of lack of memory.

**Response:** Take into consideration the memory allocated for index memory mapping, TMU buffers, and index threshold. Adjust these parameters.

---

**RBL8600E**    **Index *index\_name* was specified more than once.**

**Cause:** The list of indexes specified in the statement contains a duplicate index name.

**Response:** Correct and resubmit the statement.

---

**RBL8601I**    **Referential integrity checked only for the foreign keys used in the STAR indexes being reorganized.**

**Cause:** A TMU REORG statement specified REFERENCE CHECKING OFF and included one or more STAR indexes to be rebuilt. Referential integrity is checked for each foreign key used in the index key of a STAR index being rebuilt. Referential integrity is not checked for any other foreign key. None necessary.

---

**RBL8602I**    **Reorganization of table *table\_name* terminating early because table does not have any indexes to rebuild and no referential integrity checking was requested.**

**Cause:** The REORG statement is terminating without rebuilding any indexes and checking any rows for referential integrity violations. No indexes are rebuilt because there are no indexes defined on the table. Referential integrity checking is not done because either it has been disabled in the REORG statement or the table does not have any foreign keys to check.

**Response:** None necessary.

---

**RBL8603W**    **Task *usertask* interrupted.**

**Cause:** The specified REORG task terminated before completing its operation because an error or interrupt occurred in a related REORG task. Another message will be issued that describes the error in the other task.

**Response:** Examine the error message issued by the other task and correct that problem.

---

**RBL8604E**    **An error was encountered during the reorganization of table *table\_name*.**

**Cause:** The parallel REORG operation cannot be completed because of an interrupt or error in one of its worker tasks. The interrupt or error caused the task to terminate prematurely. Another message will be issued that gives the reason for the termination of the task.

**Response:** Examine the message that describes the termination of the task and correct the problem. Check whether the indexes rebuilt by the REORG are marked valid. If they are marked valid, the indexes were rebuilt correctly and can be used. If they are marked invalid, the indexes must be rebuilt.

---

**RBL8605E**    **Task *usertask* terminated after receiving signal number *sig\_number*.**

**Cause:** The TMU received a termination signal such as SIGINT(2), SIGHUP(1), SIGQUIT(3), or SIGTERM(15). SIGINT and SIGQUIT are usually generated by the terminal as the responses to the interrupt and quit characters (usually Control-C and Control-\\). SIGHUP is usually the result of a disconnected terminal.

**Response:** The TMU will terminate the reorganization of the table and mark all indexes being rebuilt as invalid.

---

**RBL8606E**    **Parallel REORG received operating system error *os\_error* while trying to create task *usertask*.**

**Cause:** A parallel REORG command was not able to create the indicated task due to resource limits in the operating system.

**Response:** Evaluate the operating system configuration to determine why the tasks could not be created. Then try one of the following:

- (1) Alter the operating system configuration to allow the tasks to be created.
- (2) Reorganize the table at a time when there is less contention for operating system resources.
- (3) Limit the parallelism of the REORG. For example, run REORG in serial mode.

---

**RBL8607W**    **Row number *number* in segment '*segmentname*' contains a duplicate key value for index '*indexname*'.**

**Cause:** The key value for the specified row already exists in the named index. The index is a unique index, so the key value for this row cannot be inserted into the index. If the ON DISCARD DELETE ROW option was selected for the REORG then the row with the duplicate key value will be deleted from the table. Otherwise, the index named in the message will be marked invalid at the end of the REORG operation.

**Response:** If the index is invalid at the end of the REORG operation, delete the row from the

table and REORG the table again.

---

**RBL8608F**    **The DISCARDS limit has been reached.**

**Cause:** The maximum number of DISCARDS allowed for the REORG has been reached. Rows can be discarded either because they fail the checks for referential integrity or because they contain duplicate index key values.

**Response:** Check the discard file to determine the source of excess errors.

---

**RBL8609F**    **REORG failed to rebuild any of the specified indexes.**

**Cause:** Errors were encountered while trying to rebuild each of the indexes specified in the REORG statement. Other messages preceding this one explain the specific errors encountered for each index. Since REORG could not complete any useful work, it terminated.

**Response:** Correct the errors identified in the previous messages or run the REORG with the ON DISCARDS DELETE ROWS option specified.

---

**RBL8610F**    **DISCARD detected. REORG terminating.**

**Cause:** The REORG operation terminated prematurely because a DISCARD condition was encountered and the ON DISCARD option was set to ABORT. The DISCARD condition was either a referential integrity violation, a duplicate index key in a unique index, or insufficient space available to build an index. The actual DISCARD condition encountered is reported in a previous message.

**Response:** Correct the error identified in the previous message.

---

**RBL8611E**    **DISCARDFILES are not allowed with the ON DISCARD ABORT or INVALIDATE INDEX options.**

**Cause:** A DISCARDFILE clause was specified in a REORG statement that selected the ON DISCARD ABORT or ON DISCARD

INVALIDATE INDEX option. The DISCARDFILE clause may have been specified in the OPTIMIZE clause, in its own separate clause, or in both places. Neither clause is allowed. DISCARD files are allowed only with the ON DISCARD DELETE ROW option.

**Response:** Remove the DISCARDFILE clause from the REORG statement.

---

**RBL8612E REORG terminated because the portion of the INDEX TEMPSPACE MAXSPILLSIZE allocated to duplicates has been exceeded.**

**Cause:** A REORG operation has run out of spill space on disk to store rows with duplicate index key values.

**Response:** Increase the INDEX TEMPSPACE DUPLICATESPILLPERCENT or the INDEX TEMPSPACE MAXSPILLSIZE and rerun the REORG operation. Or, DELETE the rows containing duplicate index key values and rerun the REORG operation.

---

**RBL8613W Total number of rows deleted: number.**

**Cause:** The table being reorganized contained rows that violated referential integrity constraints and/or contained duplicate index key values. The REORG statement was run with the ON DISCARD DELETE ROW option selected, so the discarded rows were deleted from the table. This message indicates the number of rows deleted. If a discard file was specified in the REORG statement, the individual deleted rows are recorded in the file.

**Response:** None necessary.

---

**RBL8614I Index name successfully rebuilt.**

**Cause:** The named index was successfully reorganized. The REORG operation was successful in rebuilding the named index.

**Response:** None necessary.

---

**RBL8615W Failed to rebuild index name.**

**Cause:** The reorganization of the named index failed. The REORG operation was not able to rebuild the named index. The cause of the failure is given in an earlier message. The index is marked invalid and cannot be used in queries until it has been successfully rebuilt.

**Response:** Correct the problem identified in the earlier message and resubmit the REORG command.

---

**RBL8619E MAX TASKS value too small.**

**Cause:** The user-specified value for MAX TASKS must be greater than the sum of SCAN TASKS and INDEX TASKS values if these values are specified, and at least 2. The MAX TASKS value is the maximum number of SCAN and INDEX tasks combined that will be used by REORG.

**Response:** Ensure that the MAX TASKS value meets these requirements, and resubmit the REORG command.

---

**RBL8620I Rows reorganized: totalcount. RI violations: ricount. Duplicate keys: dupcount. Reorganization continues...**

**Cause:** This message reports intermediate status of a REORG operation. The first value reports the number of rows that have been read and processed without any referential integrity violations being detected. If reference checking is completely disabled, this value is a count of all rows read. The second value reports the number of rows that have failed an explicit referential integrity check. If the ON DISCARD DELETE ROW option was selected, these rows have been deleted. The third value indicates the number of duplicate index key values that have been detected; the rows with the duplicate keys have not yet been deleted.

**Response:** None necessary.

---

**RBL8621I      Duplicate rows discarded: *number*.  
Reorganization continues...**

**Cause:** This message reports intermediate status of a REORG during its duplicate removal phase. It reports the number of rows that have been deleted so far due to duplicate index key values.

**Response:** None necessary.

---

**RBL8622I      Total number of rows processed:  
*number*.**

**Cause:** This message reports the total number of rows read from the reorganized table.

---

**RBL8623I      Number of rows that passed the  
referential integrity check: *number*.**

---

**RBL8624W      Number of rows that failed the  
referential integrity check: *number*.**

---

**RBL8625W      Number of duplicate index key  
values detected: *number*.**

**Cause:** A REORG operation detected the indicated number of duplicate key values in the unique indexes being reorganized. Unique indexes include the index defined on the primary key of the table, as well as indexes whose key columns are defined as unique. If a single row of the table contains duplicate key values for more than one index, each duplicate value will be counted separately.

**Response:** The rows with duplicate key values are either reported in previous messages or written to the discard file specified in the REORG statement. If either the ON DISCARD INVALIDATE INDEX option or the ABORT option was specified, REORG might not report all rows with duplicate key values. If the ON DISCARD DELETE ROW option was specified, the rows with duplicate key values will be deleted from the table.

---

**RBL8626I      Starting duplicate removal phase.**

**Cause:** The TMU has started the final phase of duplicate removal during a REORG operation. In

some cases, this duplicate removal phase can take substantial time.

**Response:** None necessary.

---

**RBL8627E      Cannot delete a row with a  
referential integrity violation  
because some indexes are not  
being rebuilt. Run a REORG on  
all indexes of table *table\_name*.**

**Cause:** A REORG statement specified a partial list of indexes to be reorganized (that is, not all indexes associated with the table were specified), but a referential integrity violation was detected during the operation. REORG operations cannot correct referential integrity violations if any STAR indexes are defined on the table and are not being rebuilt. So the REORG operation was terminated before it finished. The table is left in an invalid state until a REORG of all indexes defined on the table is completed.

**Response:** Perform a REORG operation that does not list specific indexes or that lists all indexes associated with the target table.

---

**RBL8628W      Cannot delete duplicate row from  
index *index\_name* because of a  
referential integrity violation.  
REORG this index.**

**Cause:** A referential integrity violation was detected while trying to delete a duplicate row from the named STAR index. A row was not found in the referenced table with a primary key value that matches the foreign key value in the duplicate row, so the row could not be deleted from the STAR index. The row was, however, deleted from the table and the other indexes defined on the table.

**Response:** Perform a REORG operation on the named index.

---

**RBL8629E**    **Cannot rebuild segment *segment\_name* because it is not an index segment attached to index *index\_name*.**

**Cause:** A TMU REORG operation named a segment in the index clause that is not attached to the named index.

**Response:** Correct and resubmit the statement.

---

**RBL8630E**    **Segment *segment\_name* was specified more than once.**

**Cause:** The list of segments specified in the statement contains a duplicate segment name.

**Response:** Correct and resubmit the statement.

---

**RBL8631E**    **Cannot REORG index *index\_name* because segment *segment\_name* is offline.**

**Cause:** A REORG operation cannot be completed because the named index segment is offline. All index segments rebuilt by a single REORG operation must have the same status. They must be either all offline or all online. The status of the named segment differs from that of the other index segments. You can query the RBW\_SEGMENTS system table to determine the status of all segments.

**Response:** Bring the indicated segment online and resubmit the REORG statement. Or, remove the segment from the current REORG statement and rebuild the segment in a separate REORG operation.

---

**RBL8632E**    **Cannot REORG index *index\_name* because segment *segment\_name* is online.**

**Cause:** A REORG operation cannot be completed because the named index segment is online. All index segments rebuilt by a single REORG operation must have the same status. They must be either all offline or all online. The status of the named segment differs from that of the other index segments. You can query the

RBW\_SEGMENTS system table to determine the status of all segments.

**Response:** Take the indicated segment offline and resubmit the REORG statement. Or, remove the segment from the current REORG statement and rebuild the segment in a separate REORG operation.

---

**RBS8633E**    **REORG requires a full table scan because the table *table\_name* is not segmented by column values.**

**Cause:** A REORG statement specified a partial list of data segments to read. This option is allowed only if the table is segmented by column values. The named table does not use this segmenting method. segment.

**Response:** Remove the data segment list from the REORG statement and resubmit the command.

---

**RBL8634E**    **REORG requires a full table scan because table *table\_name* and index *index\_name* are segmented on different columns.**

**Cause:** A REORG statement specified a partial list of data segments to read. This option is allowed only if the table and all indexes being reorganized use the same segmenting column. The index named in the message is not segmented on the same column as the table.

**Response:** Remove the data segment list from the REORG statement and resubmit the command.

---

**RBL8635W**    **The table data segment list must include segment *seg\_name*.**

**Cause:** A REORG operation cannot be completed because the named data segment was not specified in the segment list following the table name. The ranges of the named data segment overlap with at least one of the index segments being rebuilt. Thus the data segment might contain rows whose index keys fall within one of these index segments. To rebuild the



index segments correctly, this data segment must be read.

**Response:** Add the data segment to the list of table segments to be read and resubmit the statement.

---

**RBL8636E**     **Cannot recalculate segment ranges for STAR index *index\_name* because all segments are not being reorganized.**

**Cause:** The RECALCULATE RANGES option was specified in a REORG statement. The segment ranges for a STAR index can be recalculated only if all segments of the index are rebuilt. But a partial segment list was specified for the named index.

**Response:** Correct and resubmit the statement.

---

**RBL8637E**     **ON DISCARD INVALIDATE INDEX or ON DISCARD ABORT must be specified when reorganizing a subset of all the segments attached to an index.**

**Cause:** The ON DISCARD DELETE ROW option of a REORG statement was specified, either explicitly, or by default. This option is not supported when reorganizing a partial set of the segments belonging to an index.

**Response:** Correct and resubmit the statement.

---

**RBL8638E**     **Cannot specify index scan tasks when reorganizing a subset of all the segments attached to an index.**

**Cause:** When reorganizing a partial set of the segments belonging to an index, the data used to construct the index must be read from the table, not from another index. Table scan tasks, rather than index scan tasks, should be specified.

**Response:** Correct and resubmit the statement.

---

**RBL8639E**     **The table segment list is incomplete. REORG terminating.**

**Cause:** A REORG statement specified a partial list of data segments to read. But this list does

not contain all the data segments needed to rebuild the index segments specified in the REORG statement. Preceding warning messages identify the data segments that need to be added to the list of data segments.

**Response:** Correct and resubmit the statement.

---

**RBL8640E**     **Cannot perform partial REORG of index *index\_name* because MAXSEGMENTS or MAXROWS PER SEGMENT value of a referenced table has changed.**

**Cause:** The MAXSEGMENTS or MAXROWS PER SEGMENT value of a table referenced by a foreign key used in the named STAR index has changed since the STAR index was created. The STAR index is invalid for write access, so individual segments of the index cannot be reorganized. The complete index must be reorganized.

**Response:** Remove the segment specification for the named STAR index and resubmit the statement.

---

**RBL8641I**     **Clearing segment *segment\_name* of index *index\_name*.**

**Cause:** REORG is deleting the contents of the named index segment in preparation for repopulating it.

**Response:** None necessary.

---

**RBL8642E**     **Cannot reorganize individual segments of index *index\_name* because the index is DEFERRED.**

**Cause:** A partial list of segments was specified for the named index. But the index is marked DEFERRED, and thus, is empty. Individual segments of a DEFERRED index cannot be reorganized. The entire index must be reorganized.

**Response:** Correct and resubmit the statement.



---

**RBL8643I**     **Segments of index *name* successfully rebuilt.**

**Cause:** The segments specified in the REORG statement for the named index have been successfully reorganized.

**Response:** None necessary.

---

**RBL8644W**     **Failed to rebuild the segments of index *name*.**

**Cause:** The reorganization of the segments specified for the named index failed. The REORG operation was not able to rebuild these index segments. The cause of the failure is given in an earlier message. The index might be marked invalid and should not be used in queries until it has been successfully rebuilt.

**Response:** Correct the problem identified in the earlier message and resubmit the REORG command.

---

**RBL8657E**     **Cannot specify the RECALCULATE RANGES option when versioning is enabled.**

**Cause:** Versioning has been enabled for a REORG operation in which the RECALCULATE RANGES option has been specified. REORG must be run as a blocking transaction when the RECALCULATE RANGES option is specified.

**Response:** Correct and resubmit the statement.

---

**RBL8658F**     **Index *indexname* is not an index defined on any dimension table referenced by table *tablename*.**

**Cause:** A TMU LOAD or REORG operation named an index in the MMAP clause that is not an index on any table referenced by the table being loaded or reorganized. An index specified in the MMAP clause must be the primary key index of a dimension table.

**Response:** Correct and resubmit the statement.

---

---

**RBL8659F**     **Index *indexname* is not the primary key index of table *tablename*. The primary key index is *pkeyindexname*.**

**Cause:** A TMU LOAD or REORG operation named an index in the MMAP clause that is not the index on the primary key of the specified referenced table. The primary key index named in the message identifies the index that should be used in the MMAP clause.

**Response:** Correct and resubmit the statement.

---

**RBL8660E**     **Segment *segment\_name* is not an index segment attached to index *index\_name*.**

**Cause:** A TMU LOAD or REORG operation named a segment in the MMAP clause that is not attached to the named index.

**Response:** Correct and resubmit the statement.

---

**RBL8661E**     **TMU MMAP LIMIT set to an invalid value.**

**Cause:** The MMAP LIMIT value must be specified as an integer followed by either a "K" for kilobytes or an "M" for megabytes. The value cannot exceed 4096 megabytes (4096M).

**Response:** Correct and resubmit the statement.

---

**RBL8662I**     **Index *index\_name* named in the MMAP clause is not needed for this operation. It will not be memory mapped.**

**Cause:** In the MMAP clause of a REORG statement, an index was named that is unnecessary for the successful completion of the operation. Although the index is the primary key index of a referenced dimension table, the dimension does not participate in any STAR index being rebuilt by the REORG. In addition, the REFERENCE CHECKING OFF option has been disabled. Thus the index is not needed to perform the REORG and will not be memory mapped.

**Response:** None necessary.

---

---

**RBL8663I**    **The indexes specified in the MMAP clause will not be memory mapped because this REORG operation does not perform any referential integrity checks.**

**Cause:** A REORG statement with an MMAP clause was issued. The MMAP clause specifies the primary key indexes that should be mapped into memory to improve the performance of referential integrity checking. However, this particular REORG operation will not perform any referential integrity checking because the REFERENCE CHECKING OFF option has been selected, and any STAR indexes being rebuilt can be constructed from an existing, valid STAR index. Thus, there is no reason to memory map any index, and the MMAP clause will be ignored.

**Response:** None necessary.

---

**RBL8700W**    **Truncating constant string specified for column *column\_name*.**

**Cause:** Constant string is longer than the maximum specified for the column in the CREATE TABLE statement.

**Response:** Warning only. Review constant string specified in LOAD statement.

---

**RBL8701W**    **Unsupported EBCDIC character 0x*char* found in row *row\_number* at position *byte\_pos*.**

**Cause:** When TMU\_DISCARD\_EXTENDED\_EBCDIC mode was set, an attempt was made to load EBCDIC data that is outside the supported code set. The TMU supports EBCDIC to ASCII conversion only for code points in the IBM CS 640 character set and the exclamation point (!).

**Response:** The input row containing the unsupported EBCDIC character will be discarded.

---

**RBL8702E**    **Discard in ASCII for format IBM load is incompatible with TMU DISCARD EXTENDED EBCDIC ON.**

**Cause:** The TMU\_DISCARD\_EXTENDED\_EBCDIC mode discards rows that do not have a supported conversion to ASCII in the TMU. A row discarded due to this condition cannot meaningfully be converted to ASCII in the discard file.

**Response:** Either discard in EBCDIC or set TMU\_DISCARD\_EXTENDED\_EBCDIC OFF.

---

**RBL8703E**    **Format IBM cannot be specified together with NLS\_LOCALE.**

**Cause:** In the FORMAT clause, FORMAT IBM is used to indicate that the input data is EBCDIC. NLS\_LOCALE in the locale clause is an alternative method to specify the code set of the input data. FORMAT IBM and NLS\_LOCALE cannot be specified together in a LOAD DATA statement. To load EBCDIC data, either choose an NLS\_LOCALE with an EBCDIC code set or specify FORMAT IBM.

**Response:** Choose FORMAT IBM or NLS\_LOCALE to characterize the input data.

---

**RBL8704E**    **Invalid hex literal specified for NULLIF field on line *line\_number*.**

**Cause:** A NULLIF keyword was included in a LOAD DATA field specification, but the literal string or hex string was invalid because it contained a character other than '0' to '9' or 'a' to 'f' or 'A' to 'F'.

**Response:** Correct the invalid hex literal specification in the LOAD DATA statement.

---

**RBL8705E**    **The value for COMMIT RECORD INTERVAL must be a positive integer or OFF.**

**Cause:** In the load control file, an invalid value was specified for the SET command COMMIT RECORD INTERVAL. The SET command accepts

the keyword "OFF" or a positive integer as valid input.

**Response:** Correct the invalid value in the SET command.

---

**RBL8706E      The value for COMMIT TIME INTERVAL must be a positive integer or OFF.**

**Cause:** In the load control file, an invalid value was specified for the SET command COMMIT TIME INTERVAL. The SET command accepts the keyword "OFF" or a positive integer as valid input.

**Response:** Correct the invalid value in the SET command.

---

**RBL8707I      Versioning is active.**

**Cause:** The TMU operation is running as a versioned transaction.

**Response:** None necessary.

---

**RBL8708I      Performing interval commit...**

**Cause:** The TMU operation was set to perform interval commits by the TMU COMMIT RECORD INTERVAL or the TMU COMMIT TIME INTERVAL options. One of the intervals has expired and the TMU is pausing to commit the accumulated changes.

**Response:** None necessary.

---

**RBL8709I      Commit complete. Loading continues...**

---

**RBL8710I      Interval commit set to *record\_count* records.**

---

**RBL8711I      Interval commit set to *minute\_count* minutes.**

---

**RBL8712F      Terminating PTMU because of failure to start all child threads.**

**Cause:** One or more child threads could not initialize without error.

---

**RBL8713F      Child thread terminating due to exception *exception\_code*.**

**Cause:** Child thread encountered fatal exception.

---

**RBL8714F      Datatype incompatible with ROUND operator on column *column\_name*.**

**Cause:** The ROUND operator is supported only on conversion from floating-point datatypes (REAL, FLOAT and DOUBLE PRECISION) to integer or decimal datatypes (INTEGER, SMALLINT, TINYINT, DECIMAL and NUMERIC).

**Response:** Correct the LOAD DATA statement.

---

**RBL8715F      Datatype incompatible with trim modifier on column *column\_name*.**

**Cause:** The trim modifiers (LTRIM, RTRIM, TRIM) are supported only on loading data into a column defined as VARCHAR datatype.

**Response:** Correct the LOAD DATA statement.

---

**RBL8716F      VARLEN field type on column *column\_name* is only allowed in VARIABLE input format.**

**Cause:** VARLEN field type is only allowed in VARIABLE input format and disallowed in SEPARATED and FIXED format.

**Response:** Correct the LOAD DATA statement.

---

**RBL8717F      Field length for VARLEN column *column\_name* is not defined.**

**Cause:** Field length must be specified for VARLEN input column.

**Response:** Correct the LOAD DATA statement.

---

**RBL8718F**     **VARIABLE format should contain at least one VARLEN column.**

**Cause:** No VARLEN field column is present in VARIABLE input format.

**Response:** Correct the LOAD DATA statement to use FIXED format instead.

---

**RBL8719F**     **VARLEN columns *column\_name1* and *column\_name2* start at the same offset and do not have the same length.**

**Cause:** VARLEN columns starting at the same offset have different lengths.

**Response:** Correct the LOAD DATA statement.

---

**RBL8720F**     **VARLEN columns *column\_name1* and *column\_name2* have overlaps.**

**Cause:** VARLEN columns are not allowed to overlap.

**Response:** Correct the LOAD DATA statement.

---

**RBL8721F**     **Field length of VARLEN column *column\_name1* exceeds 1024.**

**Cause:** The field length of a VARLEN column exceeds maximum allowed length 1024.

**Response:** Correct the LOAD DATA statement.

---

**RBL8722F**     **Length error in record *Number* of file *file\_name*.**

**Cause:** An error is encountered in reading length information or the length is out of the range of 0 - 8192.

**Response:** Correct the data input file.

---

**RBL8723W**     **The variable length part of the input record is too short.**

**Cause:** The expected right end of a VARLEN column's variable part exceeds the end of the input record. The length specified by the fixed part of this VARLEN column might be too large.

**Response:** Check the data contents.

---

**RBL8724F**     **Intra record skip specified is not between 0 and 8.**

**Cause:** The specified number of bytes to skip between two input records should be between 0 and 8.

**Response:** Correct the LOAD DATA statement.

---

**RBL8725F**     **UNLOAD EXTERNAL VARIABLE is not allowed on a table with fixed length record.**

**Cause:** The table specified in the statement has fixed length record. A VARIABLE format unload output file is only allowed on a table with variable length record. To generate a FIXED format unload output file, use UNLOAD EXTERNAL.

**Response:** Correct the UNLOAD statement.

---

**RBL8726W**     **Length error in input row *Number*.**

**Cause:** This happens in the row conversion stage when the VARIABLE format input file is read by newline. An error is encountered in reading length information or the length is out of the range of 0 - 8192. The row will be discarded.

**Response:** Check the data contents.

---

**RBL8727F**     **Trim modifiers are not allowed on pseudocolumn *column\_name*.**

**Cause:** The trim modifiers (LTRIM, RTRIM, TRIM) are not allowed on pseudocolumns. Consider using trim operators in CONCAT clauses.

**Response:** Correct the LOAD DATA statement.

---

**RBL8728I**     **TMU recoverability is active.**

**Cause:** Loaded data will be flushed to the database from the version log at every commit. No other query can be executed on the same table while a TMU operation is running in recoverability mode.

**Response:** None necessary.

---

**RBL8729I**     **Table *table\_name* is cleaned.**

**Cause:** Specified table/index is cleaned after an interval commit.

**Response:** None necessary.

---

**RBL8730W**     **Encountered an error on table  
*table\_name***

**Cause:** This occurs if this table or any of the indexes defined on it is corrupted.

**Response:** Fix the corrupted table or index, if possible, or contact Customer Support.

---

**RBL8731F**     **Invalid data in input row *Number*  
of file *file\_name*.**

**Cause:** This happens in the row conversion stage when invalid character (such as x00) was found in input data. Data load will terminate.

**Response:** Check the data contents.

---

**RBS8732E**     **SET EXPORT\_MAX\_FILE\_SIZE  
value must be less than *valueG*.**

**Cause:** The value specified in the SET EXPORT\_MAX\_FILE\_SIZE command is too large. The value must be less than 2G on 32-bit platforms and less than 4G on 64-bit platforms. The highest value you can enter on 32-bit platforms is 2097151K, 2047M, or 1G. The highest value you can enter on 64-bit platforms is 4194303K, 4095M, or 3G.

**Response:** Specify a smaller value for the EXPORT\_MAX\_FILE\_SIZE parameter and submit the command again.

---

**RBS8749E**     **Invalid FORMAT specified for  
EXPORT command.**

**Cause:** A FORMAT specifier other than INTERNAL, EXTERNAL, XML or BINARY was specified for an EXPORT command.

**Response:** Correct the FORMAT specifier, and resubmit the command.

---

**RBS8750E**     **Insufficient authority to execute  
an EXPORT command.**

**Cause:** The user who issued the EXPORT command did not have the required authority. To perform an EXPORT command, a user must have the EXPORT task authority.

**Response:** Verify that the user has the correct authority to issue the EXPORT command.

---

**RBS8751E**     **EXPORT output file name  
*'path\_name'* is too long.**

**Cause:** The output file name specified for an EXPORT command is too long. This path name may include the default path specified for the EXPORT command in either the rbw.config file or in a SET EXPORT\_DEFAULT\_PATH command.

**Response:** Specify a shorter path name for the EXPORT output file name and resubmit the command.

---

**RBS8752E**     **EXPORT output file *'path\_name'*  
already exists.**

**Cause:** The output file name specified for an EXPORT command already exists. The EXPORT command cannot be used to overwrite existing files.

**Response:** Specify a different path name for the EXPORT output file name and resubmit the command.

---

**RBS8753E**     **EXPORT output file *'path\_name'*  
could not be opened.**

**Cause:** The output file name specified for an EXPORT command cannot be opened. Possible causes are that the directory does not have write permissions or that the path for the specified file is invalid. The server executes as the "redbrick" user, so write permission for that user is required on the specified directory and/or file.

**Response:** Ensure that the specified directory exists and has the proper permissions for the "redbrick" user, or change the output file name specification, and resubmit the command. If the

output file name is a pipe specification, ensure that the pipe target application exists and is executable by the "redbrick" user, and resubmit the command.

---

**RBS8754E     An EXPORT command can not create any additional data files.**

**Cause:** The EXPORT command has already created 1000 output data files, and cannot create additional files. This may be caused by the EXPORT\_MAX\_FILE\_SIZE setting in either the rbw.config file or in a SET EXPORT\_MAX\_FILE\_SIZE command being set too low.

**Response:** Specify a larger value for the EXPORT\_MAX\_FILE\_SIZE setting and resubmit the command.

---

**RBS8755I     EXPORT successfully completed; num\_files data file(s) created in path\_name\*.**

**Cause:** The EXPORT command finished, and created file(s) containing the data rows produced by the query specified in the EXPORT command.

---

**RBS8756I     EXPORT successfully completed; data written to pipe.**

**Cause:** The EXPORT command finished, and the data rows produced by the query specified in the EXPORT command have been written to a pipe.

---

**RBS8757E     Unable to open or write to 'file\_name'. Reason: string.**

**Cause:** The EXPORT command processes were not able to open or write to the specified file. Possible causes are that the server runs as the "redbrick" user and the "redbrick" user did not have permission to open or write to the file in the specified location, or that the specified location has run out of disk space.

**Response:** Ensure that the specified location has sufficient space and the correct privileges for the "redbrick" user.

---

**RBS8758E     An error occurred while writing data to a pipe during execution of an EXPORT command.**

**Cause:** The EXPORT command received an error while writing data to, or closing, the pipe. The program being executed by the pipe command may have experienced a problem in it's execution.

**Response:** Ensure that the specified pipe command can be properly executed, and resubmit the command.

---

**RBL8759E     Cannot complete operation for table table\_name because precomputed view mv\_name does not exist.**

**Cause:** A TMU statement specified a precomputed view name to maintain, but no precomputed view by that name exists in the current database.

**Response:** Correct the TMU statement to specify either a valid precomputed view name or no precomputed view name.

---

**RBL8760E     Precomputed view mv\_name is not associated with table table\_name.**

**Cause:** A TMU statement specified a precomputed view name to maintain, but the named precomputed view is not associated with the target table.

**Response:** Correct the TMU statement to specify either a precomputed view name associated with the target table or no precomputed view name.

---

**RBL8761E     Cannot complete operation for table table\_name because the database object mv\_name specified as a precomputed view is not a precomputed view.**

**Cause:** A TMU statement specified a precomputed view name to maintain, but the database object by that name is not a precomputed view in the current database.



**Response:** Correct the TMU statement to specify either a valid precomputed view name or no precomputed view name.

---

**RBL8762E**     **Precomputed view *mv\_name* was specified more than once.**

**Cause:** The list of precomputed views specified in the statement contains a duplicate precomputed view name.

**Response:** Correct and resubmit the statement.

---

**RBL8763I**     **Starting precomputed view maintenance.**

**Cause:** Indicates that precomputed view maintenance started during a LOAD DATA, REORG or CREATE INDEX operation. This message is issued only when PRECOMPUTED VIEW MAINTENANCE is ON, at least one precomputed view is defined on the table being operated on, and any precomputed views defined can be maintained automatically. In some cases, this phase of loader operation can take substantial time.

**Response:** None necessary.

---

**RBL8764I**     **Server message: *server\_text***

**Cause:** The message printed is from the server which has been launched for performing precomputed view maintenance by the TMU.

**Response:** None necessary.

---

**RBL8765I**     **Precomputed view maintenance is ON.**

**Cause:** Precomputed view maintenance is being automatically performed during a load or REORG operation.

**Response:** None necessary.

---

**RBL8766I**     **There are no precomputed views to maintain for this operation. Switching precomputed view maintenance OFF. Loading continues...**

**Cause:** Precomputed view maintenance was ON when the load operation started, but no precomputed views were found which could be automatically maintained for this operation, so the TMU is switching precomputed view maintenance OFF for the duration of this operation.

**Response:** None necessary.

---

**RBL8767E**     **Precomputed view maintenance has failed because of a server error.**

**Cause:** Precomputed view maintenance was ON when the load or REORG operation started, but an error was encountered in the server before precomputed view maintenance was started.

**Response:** Check the server errors displayed in the TMU or in the logs, and resubmit the operation.

---

**RBL8768I**     **There are no precomputed views to maintain for this operation. Switching precomputed view maintenance OFF. Reorganization continues...**

**Cause:** Precomputed view maintenance was ON when the REORG operation started, but no precomputed views were found which could be automatically maintained for this operation, so the TMU is switching precomputed view maintenance OFF for the duration of this operation.

**Response:** None necessary.

---

**RBL8769E**     **Unable to allocate IPC semaphores for precomputed view maintenance.**

**Cause:** Precomputed view maintenance was ON when the LOAD or REORG operation started,



but the TMU was unable to allocate necessary IPC semaphores for the precomputed view maintenance operation.

**Response:** Ensure that the system has sufficient IPC semaphore resources available, and resubmit the command.

---

**RBS8770I      The value of  
EXPORT\_MAX\_FILE\_SIZE is  
being reset to *sizeK*.**

**Cause:** An exported data file should contain at least one row. For XML format, the data file should contain at least the header and one row. The value of EXPORT\_MAX\_FILE\_SIZE is being reset based on the maximum row length possible.

---

**RBS9001I      Cannot find XML "encoding"  
value for codepage *string*.**

**Cause:** The appropriate encoding value for the text declaration of the XML output file could not be found for your codepage.

**Response:** Consult the locales.pdf document in the relnotes directory of your installation CD-ROM. This file contains a table that maps supported codepages to XML encoding values. You can edit the XML output file to add the encoding value.

---

**RBS9002W      One or more control characters  
were found in row *row\_num*,  
column '*colname*' when exporting  
to XML format.**

**Cause:** Control characters are not allowed in XML documents. They will be replaced with question marks (?) in the output file.

---

**RBL9008F      POSITION not allowed for XML  
format.**

**Cause:** The LOAD DATA statement contained a syntax error. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit the command again.

---

**RBL9009F      XML path name is too long.  
Maximum size allowed is *maxlen*.**

**Cause:** An XML path name in the TMU control file is too long.

**Response:** Correct the control file and submit the command again.

---

**RBL9010F      Cannot load XML format data  
from tape.**

---

**RBL9012F      Unable to create a pipe.**

**Cause:** The TMU could not create a pipe. Possible causes include insufficient operating-system resources. For example, the maximum limit of open file descriptors may have been reached.

**Response:** Check the availability of operating-system resources. Check for any operating-system error messages.

---

**RBL9013F      Unable to reset the read or write  
descriptor/handle of a pipe.**

**Cause:** Unknown.

**Response:** Check for any operating-system error messages.

---

**RBL9014F      Unable to duplicate a file  
descriptor or handle.  
Operating-system error: *oserror*.**

**Cause:** Could not duplicate a descriptor or handle. Possible causes include insufficient operating-system resources. For example, the maximum limit of open file descriptors may have been reached.

**Response:** Check the availability of operating-system resources. Check for any operating-system error messages.

---

**RBL9015W**    **Unable to close a file descriptor or handle. Operating-system error:**  
*oserror.*

**Cause:** Unknown.

**Response:** Check for any operating-system error messages.

---

**RBL9016F**    **Unable to spawn process *cmdline*. Operating-system error:** *oserror.*

**Cause:** An attempt to spawn a process failed. The operating system returned an error.

**Response:** Check the operating-system reported error.

---

**RBS9017F**    **Unable to fork process. Operating-system error:** *oserror.*

**Cause:** An attempt to fork a process failed. The operating system returned the indicated error, which might be the result of an operating-system resource being exhausted at the system or user (redbrick) level. Often the resource that has been exhausted is swap space or processes.

**Response:** Examine the operating-system logs for messages logged when this error was reported (or shortly before it was reported). Based on this analysis, adjust the kernel parameters and/or concurrent application load, as appropriate. If necessary, contact Customer Support.

---

**RBL9018I**    **Processed *number* rows in this LOAD DATA operation from XML format input file(s).**

---

**RBL9019E**    **Encountered XML tag '*tag\_name*' multiple times at the same level.**

**Cause:** An XML tag appeared multiple times at the same level in the XML input file (a possible nested structure).

**Response:** Duplicate tags/attributes or nested structure semantics are supported only when OPTION NESTED\_XML\_INPUT is set to ON (the default). This option or the equivalent SET

NESTED XML INPUT command is currently set to OFF.

---

**RBL9020E**    **Could not convert data from UTF-16 to the database locale code set.**

**Cause:** Data could not be converted from the UTF-16 encoding.

**Response:** Check data elements for illegal characters or out-of-range bytes.

---

**RBL9022F**    **Unable to open map file '*file\_name*'. Operating-system error:** *oserror.*

**Cause:** Could not open the map file for reading.

**Response:** Check for any operating-system error messages.

---

**RBL9023F**    **Failed to initialize Apache Xerces Parser subsystem. Xerces exception:** *errmsg*

**Cause:** Error during initialization of the Xerces Parser subsystem.

**Response:** Check for exception messages from the Xerces Parser subsystem.

---

**RBL9024F**    **Unable to read map file '*file\_name*'. Operating-system error:** *oserror.*

**Cause:** Could not read or seek through the map file.

**Response:** Check for any operating-system error messages.

---

**RBL9025F**    **An unknown Apache Xerces Parser exception occurred. Xerces exception:** *errmsg*

**Cause:** An unknown error occurred during parsing with the Xerces Parser.

**Response:** Check for exception messages from the Xerces Parser subsystem.

---

**RBL9026F**    **Insufficient memory is available to continue execution. File:**  
*filename* **Line:** *lineno*

---

**RBA9027F**    **Internal error at: File:** *filename*  
**Line:** *lineno* .

---

**RBL9028F**    **XML Parsing aborted: Unable to write row buffer to pipe.**  
**Operating-system error:** *oserror*.

**Cause:** The row buffer could not be sent to the TMU.

**Response:** Check for any operating-system error messages.

---

**RBA9029F**    **An unknown error occurred.**

---

**RBL9030W**    **Xerces Parser warning in *file\_name*, at line *line*, character *char*. Xerces exception:** *errmsg*

**Cause:** The Xerces Parser returned an exception.

**Response:** Check for exception messages from the Xerces Parser subsystem.

---

**RBL9031E**    **Xerces Parser error in *file\_name*, at line *line*, character *char*. Xerces exception:** *errmsg*

**Cause:** The Xerces Parser returned an exception.

**Response:** Check for exception messages from the Xerces Parser subsystem.

---

**RBL9032F**    **Xerces Parser fatal error in *file\_name*, at line *line*, character *char*. Xerces exception:** *errmsg*

**Cause:** The Xerces Parser returned an exception.

**Response:** Check for exception messages from the Xerces Parser subsystem.

---

**RBL9033I**    **Parsing XML input file *file\_name*.**

---

---

**RBL9034W**    **XML input file parsing returned no rows.**

**Cause:** This could happen either when no XML path names were specified in the TMU control file or when the combined length of the columns with XML path names is zero.

**Response:** Check the TMU control file.

---

**RBL9035F**    **Fatal error while processing XML input file.**

**Cause:** Internal error condition.

**Response:** Check for exception messages from the Xerces Parser subsystem or other operating-system error messages.

---

**RBL9036I**    **XML Parsing Phase: CPU time usage = *hour:min:sec.decisec*.**

---

**RBL9037F**    **XML Parsing: Shared Memory error < File: *filename* Line: *lineno* Type: *shmval* >.Operating-system error:** *<oserrno> oserror*.

**Cause:** The operating system returned a shared memory error.

**Response:** Check the operating-system reported error.

---

**RBL9038F**    **XML Parsing: Unable to create a thread. Operating-system error:** *oserror*.

**Cause:** An attempt to spin a thread failed. The operating system returned an error.

**Response:** Check the operating-system reported error.

---

**RBL9039F**    **Invalid value set for XML\_MAX\_TASKS.**

**Cause:** XML\_MAX\_TASKS was set to an invalid value in either the rbw.config file or the TMU control file.

**Response:** The XML\_MAX\_TASKS value should be a valid positive integer or zero.

---

**RBL9040W**    **Unable to create file 'file\_name'.**  
**Operating-system error:** *oserror*.

**Cause:** Could not create a spill file for writing.

**Response:** Check for any operating-system error messages. XML parsing will continue serially.

---

**RBL9041W**    **Unable to open a spill file.**  
**Operating-system error:** *oserror*.

**Cause:** Could not open a spill file for writing.

**Response:** Check for any operating-system error messages. XML parsing will continue serially.

---

**RBL9042F**    **Error while reading from spill file. Operating-system error:**  
*oserror*.

**Cause:** Could not read from a spill file.

**Response:** Check for any operating-system error messages. XML loading will now terminate.

---

**RBL9043W**    **XML Parsing stopped: Unable to write row buffer to spill file.**  
**Operating-system error:** *oserror*.

**Cause:** The row buffer could not be written to a spill file.

**Response:** Check for any operating-system error messages. Parsing of this XML file will restart and loading will continue serially.

---

**RBL9044I**    **Parallel XML Parsing started with tasks tasks.**

**Cause:** This message indicates the number of parallel XML parsing tasks that were started.

**Response:** None necessary.

---

**RBL9045F**    **Illegal NAMESPACE PREFIX value.**

**Cause:** The NAMESPACE PREFIX string value in the TMU control file was not an acceptable prefix string.

**Response:** The string value has to be a valid

prefix, as defined in the W3 XML namespaces specification. It can also be an empty string (") or a string with just one space character (' '). Illegal strings include prefixes with multiple spaces or leading space characters.

---

**RBL9046F**    **Missing XML namespace URI for prefix prefix.**

**Cause:** The namespace prefix specified in the TMU control file did not map to an XML namespace URI in the input file.

**Response:** Verify that the correct prefix string is specified in the TMU file, or provide the namespace prefix for the URI in the XML input.

---

**RBL9047F**    **Invalid value for OPTION NESTED\_XML\_INPUT.**

**Cause:** The NESTED\_XML\_INPUT option was set to an invalid value.

**Response:** The NESTED\_XML\_INPUT option must be either ON or OFF.

---

**RBS9048I**    **NESTED\_XML\_INPUT is currently set to OFF.**

**Cause:** The processing of nested XML input data has been turned off, either with a SET command or in the rbw.config file.

**Response:** None necessary.

---

**RBL9049E**    **Invalid NESTED\_XML\_MEMORY\_LIMIT value.**

**Cause:** The NESTED\_XML\_MEMORY\_LIMIT parameter or the equivalent SET command was incorrectly specified.

**Response:** The allowed range of values is 64K to 256M, and the default is 1M. Correct the value and submit the command again.

---

**RBL9050E**    **Invalid unit specified for the NESTED\_XML\_MEMORY\_LIMIT value.**

**Cause:** The unit specified for the NESTED\_XML\_MEMORY\_LIMIT parameter or equivalent SET command was incorrect.

**Response:** The acceptable units are K (kilobytes) and M (megabytes). G (gigabytes) is not valid. Correct the unit and submit the command again.

---

**RBL9051E**    **The XML tag '*tag\_name*' occurred twice at the same level, once with a namespace and once without.**

**Cause:** An XML tag appeared more than once at the same level in the XML path specifications of the TMU control file, once with a namespace associated and at least once without a namespace. This inconsistency causes ambiguity when the XML content is parsed.

**Response:** Use namespace prefixes for all repeated occurrences of tags at the same level. Multiple namespace prefixes, including the "empty" prefix, can be used. Another choice is to avoid using prefixes for the tag altogether. However, a mixture of namespace-prefixed tags and non-prefixed tags for the same element in the XML path entries is not allowed.

---

**RBL9052E**    **Memory cannot be allocated during XML input parsing.**

**Cause:** The NESTED\_XML\_MEMORY\_LIMIT value may have been exceeded.

**Response:** Increase the NESTED\_XML\_MEMORY\_LIMIT value with either the rbw.config file parameter or a SET command, then run the load operation again.

---

**RBS9101I**    **Performance Monitor Daemon Process:*process\_id*  
RB\_HOST:'*connection\_name*'.**

**Cause:** The performance monitor daemon started successfully.

**Response:** None necessary.

---

**RBS9102E**    **Performance monitor: maximum number of monitored sessions limit reached.**

**Cause:** The limit on the number of sessions being monitored has been reached.

**Response:** The maximum number of monitored sessions can be increased by setting the PERFORMANCE\_MONITOR\_MAXSESSIONS parameter in the rbw.config file.

---

**RBA9103E**    **Not able to start the performance monitor daemon.**

**Cause:** An error occurred during an attempt to start the performance monitor daemon.

**Response:** Find the error in the rbwlog file, correct the problem that caused the error, and resubmit the command.

---

**RBS9104E**    **Performance Monitor: maximum monitored queryprocs limit reached.**

**Cause:** The limit on the maximum number of rbwsrv processes that can be monitored has been reached.

---

**RBS9105E**    **Performance Monitor: maximum monitored operators limit reached.**

**Cause:** The limit on the maximum number of operators that can be monitored has been reached.

**Response:** The number of operators in this query is more than normal. Increase the PERFORMANCE\_MONITOR\_MAXOPERATORS limit.

---

**RBA9106E**    **Performance Monitor: Shared memory might be corrupt.**

**Cause:** It is not safe to use the contents of the performance monitor shared memory.

---

**RBS9107I**      **Session PID:** *session\_pid*,  
**Command ID:** *command\_id*.

**Cause:** A command was submitted for monitoring.

**Response:** None necessary.

---

**RBS9108E**      **RBWPMOND daemon is not running or not available.**

**Cause:** The performance monitor daemon RBWPMOND is not running or is being terminated.

**Response:** Ensure that the RBWPMOND daemon is properly started.

---

**RBS9109E**      **Insufficient privilege to start the performance monitor daemon.**

**Cause:** The performance monitor daemon was started by a user who is not authorized to start the daemon.

**Response:** Run the performance monitor daemon with a privileged user ID.

---

**RBS9110F**      **Wrong number of arguments on command line.**

**Cause:** The performance monitor daemon takes exactly one argument--the server name--on its command line.

**Response:** Specify one argument on the command line.

---

**RBS9111E**      **The session pid and/or database name is invalid.**

**Cause:** The session pid or database name used in the ALTER SYSTEM START/STOP PERFORMANCE MONITOR command is invalid.

**Response:** Correct the syntax and resubmit the command.

---

---

**RBS9112E**      **Performance monitoring for this session has been disabled.**

**Cause:** The DBA has disabled performance monitoring for this session.

**Response:** To allow performance monitoring, use the ALTER SYSTEM START PERFORMANCE MONITOR SESSION <session\_pid>... command (like other ALTER SYSTEM commands, this command can only be used by the DBA).

---

**RBS9113E**      **Specified performance-monitoring report interval is lower than the allowed minimum of *number* seconds.**

**Cause:** The reporting interval for DST tables is lower than what is allowed.

**Response:** Increase the specified reporting interval.

---

**RBS9114W**      **Specified value of PERFORMANCE\_MONITOR\_MAXOPERATORS is too high (more than *number*).**

**Cause:** This message alerts users in case they have inadvertently set the PERFORMANCE\_MONITOR\_MAXOPERATORS parameter too high. This value affects the amount of shared memory allocated.

**Response:** Performance monitoring will continue to work, but consider decreasing the value of the PERFORMANCE\_MONITOR\_MAXOPERATORS parameter.

---

**RBS9115I**      **Performance monitor message:**  
*'message'*

**Cause:** This is a placeholder for generic informational messages from the performance monitoring system.

---

---

**RBS9116E      Performance monitor: maximum number of commands reached.**

**Cause:** The limit on the number of commands stored in the DST\_PERFORMANCE tables has been reached.

**Response:** Remove some commands from the DST\_PERFORMANCE tables or increase the PERFORMANCE\_MONITOR\_COMMANDS\_LIMIT.

---

**RBS9117E      Performance monitoring must be enabled before setting the 'user\_comments'.**

**Cause:** The user tried to set the 'user\_comments' for a query without first enabling monitoring.

**Response:** The SET PERFORMANCE MONITOR ON [user\_comments] command can be used to enable monitoring.

---

**RBS9118I      System-wide performance monitoring cannot be stopped. The following sessions have monitoring 'On':**

**Cause:** The DBA tried to stop the performance monitor while some sessions still had monitoring turned on. This message is always followed by message 9119, which lists the sessions that have monitoring on.

**Response:** The DBA should make sure that monitoring is turned off for all sessions before shutting down the performance monitor.

---

**RBS9119I      Session pid *number***

**Cause:** Follows message 9118.

---

**RBS9120E      Performance monitor parameters in the rbw.config file have changed. Please stop and restart rbwpmnd.**

**Cause:** One or more of the parameters that are used in the calculation of shared memory size by the performance monitor daemon have changed

in the rbw.config file since the last time the daemon was started. These parameters could be QUERYPROCS, PERFORMANCE\_MONITOR\_MAXSESSIONS, or PERFORMANCE\_MONITOR\_MAXOPERATORS.

**Response:** The performance monitor daemon (rbwpmnd) must be stopped and restarted using the ALTER SYSTEM STOP/START PERFORMANCE MONITOR command.

---

**RBS9121E      Comment string is longer than 256 characters.**

**Cause:** The maximum length of the user comments is 256 characters.

---

**RBS9122E      Performance monitor message: '*message*'**

**Cause:** This message is a placeholder for generic error messages from the performance monitoring system.

---

**RBS9123E      Cannot start performance monitor since PERFORMANCE\_MONITOR\_MAXSESSIONS is 0.**

**Cause:** The performance monitor daemon cannot be started if the PERFORMANCE\_MONITOR\_MAXSESSIONS parameter in the rbw.config file is 0.

**Response:** Set the value of PERFORMANCE\_MONITOR\_MAXSESSIONS to greater than 0 in the rbw.config file (if the parameter is not set, the default value is 20).

---

**RBS9124E      Cannot start performance monitor since PERFORMANCE\_MONITOR\_MAXOPERATORS is 0.**

**Cause:** The performance monitor daemon cannot be started if the PERFORMANCE\_MONITOR\_MAXOPERATORS parameter in the rbw.config file is 0.

**Response:** Set the value of PERFORMANCE\_MONITOR\_MAXOPERATORS



to a number greater than 0 (if no value is specified in the `rbw.config` file, the default value is 100).

---

**RBS9125W**    **Performance statistics will not be stored since PERFORMANCE\_MONITOR\_COMMANDS\_LIMIT is 0.**

**Cause:** The PERFORMANCE\_MONITOR\_COMMANDS\_LIMIT value is specified as 0 in the `rbw.config` file. This means that no rows will be created in the DST\_PERFORMANCE tables.

**Response:** Set the value of PERFORMANCE\_MONITOR\_COMMANDS\_LIMIT to a number greater than 0 (if no value is specified in the `rbw.config` file, the default value is 100).

---

**RBS9126E**    **The Performance Monitor is already processing a START command.**

**Cause:** A START command was issued for the Performance Monitor, but it is already being started by another session.

**Response:** No action required.

---

**RBS9127E**    **The Performance Monitor is already processing a STOP command.**

**Cause:** A STOP command was issued for the Performance Monitor, but it is already being stopped by another session.

**Response:** No action required.

---

**RBS9128E**    **The Performance Monitor is not running.**

**Cause:** A STOP command was issued for the Performance Monitor, but it is not running.

**Response:** No action required.

---

**RBS9129E**    **The Performance Monitor is already running.**

**Cause:** A START command was issued for the Performance Monitor, but it is already running.

**Response:** No action required.

---

**RBS9130E**    **Not able to stop the performance monitor daemon.**

**Cause:** A STOP command was issued for the performance monitor, but it could not be shut down.

**Response:** Find the error in the `rbwlog` file, correct the problem that caused the error, and resubmit the command.

---

**RBS9151I**    **CHOOSE PLAN (ID: *number*) Index *indexname* of table *tablename* is *number* percent memory-mapped.**

**Cause:** To enhance performance, an attempt was made to access a referenced index by mapping its files into the process address space. The index was either partially or completely memory-mapped, depending on the QUERY\_MMAP\_LIMIT setting and available resources. If only partial memory-mapping occurred, the remaining portion of the index was accessed from the buffer cache.

**Response:** If an index was only partially memory-mapped, you might be able to enhance query performance by incrementally increasing the QUERY\_MMAP\_LIMIT parameter. However, keep in mind that the QUERY\_MMAP\_LIMIT and QUERY\_MEMORY\_LIMIT allocations for all concurrent queries compete for the same physical memory resources.

---

**RBS9152E**    **QUERY\_MMAP\_LIMIT parameter set to an invalid value.**

**Cause:** The QUERY\_MMAP\_LIMIT value must be specified either as DEFAULT or as an integer followed by either a "K" for kilobytes, an "M" for megabytes, or a "G" for gigabytes. The smallest allowed value is 8K. The value cannot exceed the

maximum addressability limit of the platform.

**Response:** Submit the command again, using a valid value for the MMAP limit.

---

**RBS9153I      CHOOSE PLAN (ID: *number*)**  
**Table *tablename* is *number* percent**  
**memory-mapped.**

**Cause:** To enhance performance, an attempt was made to access a referenced dimension table by mapping its files into the process address space. The table was either partially or completely memory-mapped, depending on the QUERY\_MMAP\_LIMIT setting and available resources. If only partial memory-mapping occurred, the remaining portion of the table was accessed from the buffer cache.

**Response:** If a dimension table was only partially memory-mapped, you might be able to enhance performance by incrementally increasing the QUERY\_MMAP\_LIMIT parameter. However, keep in mind that the QUERY\_MMAP\_LIMIT and QUERY\_MEMORY\_LIMIT allocations for all concurrent queries compete for the same physical memory resources.

---

**RBS9154W      CHOOSE PLAN (ID: *number*) One**  
**or more indexes or tables could**  
**not be memory-mapped *number***  
**times because of insufficient OS**  
**resources.**

**Cause:** To enhance performance, an attempt was made to access a referenced dimension table or index by mapping its files into the process address space. This attempt failed due to resource limitations, most likely limitations on virtual memory usage. The named referenced table or index will instead be accessed from the buffer cache, which could degrade performance somewhat. This situation is most likely to happen when the referenced table or index is very large.

**Response:** If the referenced dimension table or index is not very large, you may be able to increase virtual memory resource limits to allow more and/or larger files to be accessed via memory mapping. For example, the C shell

command 'limit vmemoryuse unlimited' or the Bourne shell command 'ulimit' can be used on some UNIX platforms to increase the amount of virtual memory available to a process. If the operating system has been configured with low virtual memory, the system administrator could increase it either through a kernel tunable or through the file system.

---

**RBS9155W      Setting the**  
**QUERY\_MMAP\_LIMIT has no**  
**effect because memory-mapping**  
**is not enabled.**

**Cause:** The QUERY\_MMAP parameter must be set to ON for the QUERY\_MMAP\_LIMIT to take effect.

**Response:** Use the SET QUERY MMAP ON command or set QUERY\_MMAP to ON in the rbw.config file before setting the QUERY\_MMAP\_LIMIT parameter.

---

**RBS9156W      CHOOSE PLAN (ID: *number*) One**  
**or more tables or indexes could**  
**not be memory-mapped *number***  
**times because the**  
**QUERY\_MMAP\_LIMIT has been**  
**reached.**

**Cause:** To enhance performance, an attempt was made to access a referenced dimension table or index by mapping its files into the process address space. This attempt failed because the memory limit set by the QUERY\_MMAP\_LIMIT parameter was reached.

**Response:** You might be able to enhance performance by incrementally increasing the QUERY\_MMAP\_LIMIT parameter. However, keep in mind that the QUERY\_MMAP\_LIMIT and QUERY\_MEMORY\_LIMIT allocations for all concurrent queries compete for the same physical memory resources.

---

**RBS9158I**     **CHOOSE PLAN (ID: *number*)**  
**Percent of table *tablename***  
**memory-mapped over *number***  
**times: High: *number* Low: *number***  
**Average: *number***

**Cause:** To enhance performance, an attempt was made to access a referenced dimension table by mapping its files into the process address space. The table was either partially or completely memory-mapped, depending on the QUERY\_MMAP\_LIMIT setting and available resources. If only partial memory-mapping occurred, the remaining portion of the table was accessed from the buffer cache.

**Response:** If a dimension table was only partially memory-mapped, you might be able to enhance performance by incrementally increasing the QUERY\_MMAP\_LIMIT parameter. However, keep in mind that the QUERY\_MMAP\_LIMIT and QUERY\_MEMORY\_LIMIT allocations for all concurrent queries compete for the same physical memory resources.

---

**RBS9159I**     **CHOOSE PLAN (ID: *number*)**  
**Percent of index *indexname* of**  
**table *tablename* memory-mapped**  
**over *number* times: High: *number***  
**Low: *number* Average: *number***

**Cause:** To enhance performance, an attempt was made to access a referenced index by mapping its files into the process address space. The index was either partially or completely memory-mapped, depending on the QUERY\_MMAP\_LIMIT setting and available resources. If only partial memory-mapping occurred, the remaining portion of the index was accessed from the buffer cache.

**Response:** If an index was only partially memory-mapped, you might be able to enhance performance by incrementally increasing the QUERY\_MMAP\_LIMIT parameter. However, keep in mind that the QUERY\_MMAP\_LIMIT and QUERY\_MEMORY\_LIMIT allocations for all concurrent queries compete for the same physical memory resources.

---

**RBS9160W**     **CHOOSE PLAN (ID: *number*) One**  
**or more indexes or tables could**  
**not be memory-mapped because**  
**of insufficient OS resources.**

**Cause:** To enhance performance, an attempt was made to access a referenced dimension table or index by mapping its files into the process address space. This attempt failed due to resource limitations, most likely limitations on virtual memory usage. The named referenced table or index will instead be accessed from the buffer cache, which could degrade performance somewhat. This situation is most likely to happen when the referenced table or index is very large.

**Response:** If the referenced dimension table or index is not very large, you may be able to increase virtual memory resource limits to allow more and/or larger files to be accessed via memory mapping. For example, the C shell command 'limit vmemoryuse unlimited' or the Bourne shell command 'ulimit' can be used on some UNIX platforms to increase the amount of virtual memory available to a process. If the operating system has been configured with low virtual memory, the system administrator could increase it either through a kernel tunable or through the file system.

---

**RBS9161W**     **CHOOSE PLAN (ID: *number*) One**  
**or more tables or indexes could**  
**not be memory-mapped because**  
**the QUERY\_MMAP\_LIMIT has**  
**been reached.**

**Cause:** To enhance performance, an attempt was made to access a referenced dimension table or index by mapping its files into the process address space. This attempt failed because the memory limit set by the QUERY\_MMAP\_LIMIT parameter was reached.

**Response:** You might be able to enhance performance by incrementally increasing the QUERY\_MMAP\_LIMIT parameter. However, keep in mind that the QUERY\_MMAP\_LIMIT and QUERY\_MEMORY\_LIMIT allocations for all concurrent queries compete for the same physical memory resources.

---

**RBS9201E    Export delimiter must be one character.**

**Cause:** The EXPORT\_DELIMITER must be one single-byte or multibyte character, as specified with the DELIMITED BY clause in the EXPORT statement, the OPTION EXPORT\_DELIMITER parameter in the rbw.config file, or the SET EXPORT\_DELIMITER command.

**Response:** Change the EXPORT\_DELIMITER to a single character, then submit the EXPORT command again.

---

**RBS9202E    EXPORT\_DELIMITER character must be different from the ENCLOSED BY string delimiter.**

**Cause:** The EXPORT command specified the same character for the EXPORT\_DELIMITER and the ENCLOSED BY string delimiter.

**Response:** Use a different EXPORT\_DELIMITER character, as specified with the DELIMITED BY clause in the EXPORT statement, the OPTION EXPORT\_DELIMITER parameter in the rbw.config file, or the SET EXPORT\_DELIMITER command.

---

**RBS9203E    Enclosed string delimiter must be one character.**

**Cause:** The ENCLOSED BY specification in the EXPORT command was incorrect. The string delimiter must be a single character.

**Response:** Change the string delimiter and submit the EXPORT command again.

---

**RBS9204E    Invalid ENCLOSED BY character.**

**Cause:** An invalid ENCLOSED BY character was specified in the EXPORT command. Make sure that the ENCLOSED BY character is different from the EXPORT\_DELIMITER specified in the rbw.config file.

**Response:** Submit the EXPORT command again, using a valid ENCLOSED BY character.

---

**RBS9205E    Invalid EXPORT\_DELIMITER character.**

**Cause:** An invalid EXPORT\_DELIMITER character was specified in the EXPORT command. Make sure that the EXPORT\_DELIMITER character is different from the ENCLOSED BY character.

**Response:** Submit the EXPORT command again, using a valid EXPORT\_DELIMITER character. Correct the error and resubmit the command.

---

**RBS12001F    Maximum connection limit for 'username' has been reached.**

**Cause:** The maximum number of connections allowed for this user has been reached. The maximum number is determined by the license for this user.

**Response:** Either try to reconnect later or close some of the sessions.

---

**RBS12109I    The number of rows for segment *segname* in system table (*sysnum*) does not match actual number of rows found (*actnum*). The segment validation proceeds only if FIX option is specified.**

---

**RBS12368I    The index segment range is invalid. Index must be recreated.**

**Cause:** The index has segment with invalid segment ranges. Keys may have been inserted in wrong segments. This can produce incorrect answers.

**Response:** Drop the index and recreate the index.

---

**RBS12369I    Segment contains key values outside the range. Index must be reorganized.**

**Cause:** Key values have been inserted in incorrect segment. This may be due to a segment having invalid range.

**Response:** Reorganize the index. If one of the

segments of the index also has an invalid range, the index must be recreated.

---

**RBS12610E New name defined by ALTER TABLE RENAME already exists.**

**Cause:** A base table, system table, synonym, view, or another temporary table with the same name as that specified in the ALTER TABLE RENAME syntax already exists.

**Response:** Choose another table name and resubmit the statement.

---

**RBS12611I Cannot rename table *table\_name* because it is referenced by the following:**

**Cause:** The named table cannot be renamed because it is referenced in at least one view. This informational message is always followed by one or more occurrences of message 673, listing the views that make use of this table.

**Response:** To rename the table, first drop all the views that reference the table, rename the table, then re-create the views.

---

**RBS12612E Column '*column\_name*' of table '*table\_name*' already allows NULLs.**

**Cause:** The user ran an ALTER COLUMN NULL statement on a column that already allows NULLs.

**Response:** Make sure that the column was defined NOT NULL.

---

**RBS12614E Cannot allow NULLs in column *column\_name* because it is referenced by a hierarchy.**

**Cause:** The specification for the named column cannot be changed to allow NULLs because it is the 'FROM' column of at least one hierarchy.

**Response:** If it is necessary for ALTER COLUMN NULL to run, all hierarchies that reference this column in the FROM definition must first be dropped and then re-created.

---

**RBS12615E Cannot allow NULLs in column *column\_name* because it is a segmenting column.**

**Cause:** An attempt was made to allow null values in the column, but this is not possible because it is a segmenting column.

**Response:** Do not attempt this command on the segmenting column of a table.

---

**RBS12616E Column *column\_name* of table '*table\_name*' is already defined as NOT NULL.**

**Cause:** The user ran an ALTER COLUMN NOT NULL statement on a column that was already defined as NOT NULL.

---

**RBS12617E Cannot alter column *column\_name* of table '*table\_name*' to NOT NULL: this column has NULL values.**

**Cause:** An attempt was made to disallow null values in the column, but this is not possible because the column already contains NULL values.

**Response:** Drop or modify the rows that contain NULL values in the column and submit the command again.

---

**RBS12618E Cannot rename aggregate table '*table\_name*'.**

**Cause:** The ALTER TABLE RENAME command was issued on an aggregate table. This operation is not allowed on aggregate tables.

---

**RBS12619E Cannot alter column *column\_name* of table '*table\_name*' because it is referenced by precomputed views.**

**Cause:** The ALTER COLUMN NULL/NOT NULL command was issued on a column that is referenced by a precomputed view, which is not allowed.

**Response:** Drop all precomputed views referencing this column and retry the statement.

---

**RBS12620E Failed to alter column *column\_name* of table '*table\_name*' to NULL: not enough space to create a null block of the B-TREE index on this column.**

**Cause:** An ALTER COLUMN NULL command was issued on a column, but there is not enough space on index segment 0 to allocate a null block for this column's B-TREE index.

**Response:** Increase the index segment size and retry the statement.

---

**RBS12621E Failed to alter column *column\_name* of table '*table\_name*' to NOT NULL: failed to remove the null block of the B-TREE index defined on this column.**

**Cause:** An ALTER COLUMN NOT NULL command was issued on a column but failed. An error occurred when the null block of this column's B-TREE index was removed.

---

**RBS12622E NULL values are not allowed for SERIAL column *column\_name*.**

**Cause:** The user issued an ALTER COLUMN NULL command on a SERIAL column, but SERIAL columns cannot contain NULL values.

**Response:** The statement is not allowed.

---

**RBS12623E Cannot alter the column: it belongs to aggregate table '*table\_name*'.**

**Cause:** An ALTER COLUMN NULL/NOT NULL command was issued on an aggregate table. This operation is not allowed on aggregate tables.

---

**RBS12624E Primary Key index for referenced table '*table\_name*' is missing.**

**Cause:** The said index is missing/dropped. Recreate the index and resubmit the command.

---

**RBS12625E Cannot create object '*name*'. Prefix '*user\_name*' does not match the user's login name: '*login\_name*'.**

**Cause:** A table, view, or synonym was qualified with a username that is not the login name of the current user.

**Response:** Either use the name of the user who is logged in or do not qualify the object name.

---

**RBS12626E Owner of object '*name*' cannot be changed to '*user\_name*' during a RENAME operation.**

**Cause:** An ALTER TABLE...RENAME operation on a table or synonym specified an owner qualifier that did not match the current owner of the object.

**Response:** Either use the correct username for the qualified name or do not qualify the object name.

---

**RBS12701F Insufficient authority to compact catalog.**

**Cause:** The user who tried to execute the catalog compaction utility did not have the required authority. To use this utility, you must be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.

---

**RBS12702I Usage: *progrname* [-d *database-name*] [-show] [username [password]]**

**Cause:** The command line syntax for the utility is displayed, either because it was requested or because there was an error in the command line.

**Response:** Nothing needs to be done if the syntax was requested.

---

**RBS12703F Error in command arguments.**

**Cause:** The command line syntax was incorrect.

**Response:** Examine the command line syntax and issue the command again.



---

**RBS12704F Could not copy *file\_name* to *file\_name* before compaction.**

**Cause:** The utility tried to create a backup copy of the RB\_DEFAULT\_IDX file before attempting compaction. The copy operation failed. Some possible causes for failure are: - The copy ran out of disk space. - The catalog compaction utility was cancelled.

**Response:** Ensure that the database directory has enough disk space to copy the RB\_DEFAULT\_IDX file, then execute the compaction utility again.

---

**RBS12705F Could not restore file *file\_name* to *file\_name*.**

**Cause:** There was an error while compacting the catalog. The utility tried to restore the file from the copy that was saved earlier, but the operation failed.

**Response:** Copy the file as indicated by the message. The database should not be used until this operation is performed.

---

**RBS12707F The database is not in a usable condition now. Please try later.**

**Cause:** The catalog compaction utility cannot use the database in its current state. Possible causes are: - The system is being shut down. - Another user is trying to access the database at this time. - A process died abnormally while modifying the shared memory. - The version log is corrupted (message 6543 also issued). - Cannot start a database: the database startup daemon received a fatal error during startup (for example, not enough shared memory or an invalid locale).

**Response:** If the system was being shut down, restart the system and quiesce the database. If another user is trying to use the database, terminate the other user's session and quiesce the database. If the cause does not appear to be one of the other situations described here, refer to message 6526 for the recovery procedure.

---

**RBS12709F Catalog block number *block\_number* is orphaned or is inconsistent.**

**Cause:** The catalog is corrupted.

**Response:** Please contact customer support with the information and the catalog.

---

**RBS12710F Catalog sanity check failed. Compaction aborted.**

**Cause:** The catalog is corrupted.

**Response:** Please contact customer support with the information and the catalog.

---

**RBS12711I Size *count* blocks, Used *blocks* blocks, Free *count* blocks, percent percent free.**

**Cause:** Shows the current size and free space of the system catalog file.

**Response:** Nothing needs to be done.

---

**RBS12712I No changes made to the catalog.**

**Cause:** The utility did not need to compact the catalog.

**Response:** Nothing needs to be done.

---

**RBS12713I Final size *count* blocks, Used *block\_number* blocks.**

**Cause:** Shows the current size of the system catalog file after compaction.

---

**RBS12716I Database temporarily quiesced. No logs will be allowed.**

**Cause:** IBM recommends that you quiesce the database before you start the catalog compaction utility. The database was not quiesced when compaction started, and the utility temporarily quiesced the database for you.

**Response:** No action needed.



---

**RBS12717I Logins enabled now.**

**Cause:** The database was temporarily quiesced before catalog compaction started. When compaction is complete, logins are allowed again.

**Response:** No action needed.

---

**RBS12718F No database path given.**

**Cause:** Neither the RB\_PATH environment variable nor the -d command line option was set. The program could not determine which database to compact.

**Response:** Indicate the database to compact by supplying a logical database name through either the RB\_PATH environment variable or the -d argument.

---

**RBS12719I User cancelled the operation.**

**Cause:** The program received a cancellation event from the user on a Windows system.

**Response:** None necessary. The program will clean up the compaction operation in progress and then terminate. The original catalog before compaction will be restored.

---

**RBS12720E Cannot perform catalog compaction because other users are connected to the database.**

**Cause:** You can execute this utility only if you are the only user of the database.

**Response:** Terminate all other user sessions. If necessary, quiesce the database. Then try to execute the utility again.

---

**RBL13000E Current operation not supported for Remote TMU.**

**Cause:** This operation is not supported for the Remote TMU.

---

**RBL13001W DDL file generation along with Unload not supported for Remote TMU. Ignoring DDLFILE clause.**

**Cause:** DDL file generation is not supported for the Remote TMU.

**Response:** Use the GENERATE CREATE TABLE option.

---

**RBL13002W TMU file generation along with Unload not supported for Remote TMU. Ignoring TMUFILE clause.**

**Cause:** TMU file generation is not supported for the Remote TMU.

**Response:** Use the GENERATE LOAD option.

---

**RBL13003E Tape operations not supported for Remote TMU.**

**Cause:** Do not use tape operations for the Remote TMU. These operations are not supported.

**Response:** None necessary.

---

**RBL13004I TMU executing in Remote Mode.**

---

**RBL13005I Finished file. *number* rows read from file.**

---

**RBL13006E TMU Client encountered error. TMU exiting.**

**Cause:** Client did not acknowledge successfully. Must have received some fatal error.

---

**RBL13007I Unloaded total *number* rows.**

**Cause:** UNLOAD operation was successful.

**Response:** None necessary.

---

**RBL13008W** TMU encountered another statement in control file. Will stop after current operation.

**Cause:** Currently, the Remote TMU supports only one TMU statement per control file.

**Response:** Put the next TMU statement in another control file and run the Remote TMU again.

---

**RBL13009W** Actual number of unloaded rows on the client machine might be less than the number reported by the `rb_ptmu`.

**Cause:** When the Client TMU (`rb_ctmu`) stops unloading rows because of an error, the number of rows successfully unloaded on the client machine might be less than the number of rows reported as unloaded by the TMU on the server machine. This situation can occur because of the network delay between the client and server TMU operations.

**Response:** Correct the error on the client machine and submit the unload command again.



---

## Chapter 3. ODBC and client messages

This chapter provides a complete list of the informational, warning, and error messages issued by the IBM Red Brick Warehouse ODBC and client components. For information about message format, see page 15.

---

## Message listing

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**RBA132F**      **Internal error in function: 'string'.**

---

**RBR801F**      **Usage:** *program\_name* [-q] [-s  
<dsn>] [-h <host>] [-d  
<database>] [<username>  
[<password>]]

**Cause:** Invalid RISQL Entry Tool or RISQL Reporter command-line syntax was supplied.

**Response:** Submit the command again with valid command-line options.

---

**RBR803F**      **RB\_CONFIG must be defined.**

**Cause:** Before the "risql" or "risqlrpt" command can be executed, the RB\_CONFIG environment variable must be set to a valid pathname containing an rbw.config file.

**Response:** Set the RB\_CONFIG environment variable and enter the command again.

---

**RBR804F**      **Fatal error initializing warehouse server connection: *string*.**

**Cause:** The RISQL Entry Tool was unable to establish a connection to a warehouse server. The most common cause of this problem is that the RB\_HOST environment variable does not reference an active warehouse daemon, which is typically started by the system administrator.

**Response:** Consult your system administrator to ensure you have permission to connect to a warehouse server.

---

**RBR805F**      **Fatal error executing command 'string'.**

**Cause:** The RISQL Entry Tool encountered an unusual situation, such as a program error.

**Response:** Record what you were doing and contact Customer Support.

---

---

**RBR806E**      **Statement exceeds maximum length of *num\_chars* characters.**

**Cause:** The statement was longer than 64,000 characters, the current maximum length of an SQL statement that can be executed by the RISQL Entry Tool.

**Response:** Reduce the length of the SQL statement. All characters--including blanks and comments--are counted when this limit is calculated.

---

**RBR807E**      **EDITOR must be defined to execute EDIT command.**

**Cause:** The default EDITOR command has been removed. This error should not occur because there is no user-defined way to turn off the default EDITOR command.

**Response:** Record what you were doing and contact Customer Support.

---

**RBR808F**      **Unable to connect to warehouse server *string*.**

**Cause:** The RISQL Entry Tool was unable to establish a connection to a warehouse server. The most common cause of this problem is that the RB\_HOST environment variable does not reference an active warehouse daemon. The daemon is typically started by the system administrator.

**Response:** Consult your system administrator to ensure you have permission to connect to a warehouse server.

---

**RBR809E**      **Error opening file 'file\_name'**

**Cause:** The RISQL Entry Tool could not open the specified file when executing an EDIT, RUN, or SET OUTPUT command. This message occurs when the file is not found or when the permissions needed to read or write the file are incorrect. The message that follows this message explains why the error occurred.

---

**Response:** If you are reading the file (EDIT or RUN), make sure that you have read permission. If you are writing to the file (SET OUTPUT), make sure that you have write permission.

---

**RBR810E      Requested page length *number* is invalid.**

**Cause:** Either the desired page length value was out of range (less than 0 or greater than 999,999,999) or it contained non-numeric characters.

**Response:** Change the page length to a valid value and submit the command again.

---

**RBR812F      Fatal error exiting from RISQL Entry Tool.**

**Cause:** Attempts to shut down the connection to the warehouse server failed. This message typically follows a severe failure in the server caused by problems that are indicated in error messages posted by the server. If you receive this message, the only problem that might occur is that a warehouse server process might be left in an orphaned state.

**Response:** Consult your system administrator, who can use the `rbw.show` command to verify that all servers are operating properly.

---

**RBR814I      No database connection has been established. Use the CONNECT command to establish a connection.**

---

**RBR815E      No valid database path has been given.**

---

**RBR816E      No valid user name has been given.**

---

**RBR817E      No valid password has been given.**

---

**RBR818I      Request cancelled.**

**Cause:** The request was cancelled due to user intervention, normally by the Control-C interrupt. No additional output will be returned from the warehouse server.

**Response:** None necessary.

---

**RBR819E      Parameter error: '*string*'.**

**Cause:** An invalid parameter value was used with the requested RISQL Entry Tool or RISQL Reporter command.

**Response:** Refer to the RISQL Entry Tool and RISQL Reporter User's Guide for valid parameter values for various commands.

---

**RBR820E      Scale '*value*' is not numeric or out of range (0-99).**

**Cause:** The requested decimal scale must be a numeric value from 0 to 99.

**Response:** Modify the command to use a valid scale value and submit it again.

---

**RBR824F      Could not find SERVER entry in config file, for RB\_HOST:'*rbhost*'.**

**Cause:** The SERVER entry for <RB\_HOST> was not found in the `rbw.config` file.

**Response:** Check the `rbw.config` file for SERVER entry and try again.

---

**RBR825E      Cannot retrieve *numcols* columns (maximum *maxcols*).**

**Cause:** Your query attempted to retrieve more than the maximum number of columns supported by the program.

**Response:** Shorten the query's SELECT clause so that it produces fewer columns.

---

**RBR826E      Output file system is full. Cannot continue execution.**

**Cause:** The file system to which the output file was placed was full. Either output or error

messages cannot be written.

**Response:** Move the output file to a different file system, or remove some unnecessary files from the current file system.

---

**RBR899E Command requires RISQL Reporter.**

**Cause:** The command was not supported by the RISQL Entry Tool, and required the use of the RISQL Reporter product.

**Response:** Execute the command with the RISQL Reporter.

---

**RBR1676F Invalid port number in SERVER specification :server\_spec.**

**Cause:** The port number specified in the SERVER specification was invalid.

**Response:** Specify a valid port number and submit the command again.

---

**RBR1677F Config file not found in RB\_CONFIG dir dir\_name.**

**Cause:** A configuration file was not found in RB\_CONFIG directory.

**Response:** Make sure the file exists in the directory.

---

**RBR1678F Error getting host name. OS Error errno**

**Cause:** There was an error getting a host name for the machine.

**Response:** Contact system administrator to make sure machine has a host name.

---

**RBA1800E Locale value locale\_string contains an invalid language specification.**

**Cause:** The locale setting contains an invalid language specification. Locale strings have the format [language]\_[territory].[codepage]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBA1801E Locale value locale\_string contains an invalid territory specification.**

**Cause:** The locale setting contains an invalid territory specification. Locale strings have the format [language]\_[territory].[codepage]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBA1802E Locale value locale\_string contains an invalid code page specification.**

**Cause:** The locale setting contains an invalid code page specification. Locale strings have the format [language]\_[territory].[codepage]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBA1803E Locale value locale\_string contains an invalid sort specification.**

**Cause:** The locale setting contains an invalid sort specification. Locale strings have the format [language]\_[territory].[codepage]@[sort] and do not contain blanks.

**Response:** Correct the error and submit the command again.

---

**RBA1809E Only one single-byte character is allowed.**

**Cause:** A multi-byte character or a set of characters were specified where it is only acceptable to have one, single-byte character. Examples include the FILL and UNDERLINE characters.

**Response:** Use only one single-byte character.

---

**RBO10000E Assertion failure in source file at line line\_number: condition.**

**Cause:** An unexpected internal condition occurred. The program logic could not proceed.



**Response:** Record what you were doing and contact Customer Support.

---

**RBO10001E Keyword '*keyword*' unsupported.**

**Cause:** The specified keyword was not supported by this ODBC driver.

---

**RBO10002E NULL value in column *column* number, but no indicator.**

**Cause:** The ODBC driver was unable to inform your program--attempting to retrieve a null value from the database--because the program passed a NULL pointer to SQLBindCol or SQLGetData instead of a pointer to an indicator variable. The ODBC driver has not altered the data area passed as rgbValue. This error is the only way the ODBC driver can alert the program to DISREGARD the current contents of the rgbValue buffer as valid data.

**Response:** If you control the application's source code, modify the program to pass a pointer to an SDWORD length/indicator variable as pcbValue. If you control the SQL query, extend the WHERE clause to exclude null values from this column. If you cannot alter either, eliminate null values from this column of the database.

---

**RBO10003W The returned string value was truncated.**

**Cause:** The string buffer passed to an ODBC function was insufficient to hold the data.

**Response:** Make sure to pass a string buffer of sufficient size.

---

**RBO10004W Invalid '*keyword*' value '*value*', '*default*' assumed.**

**Cause:** The value specified in the rbw.config/ini file for the parameter was invalid. A default value was assumed.

**Response:** Specify the correct and acceptable parameter value.

---

**RBO10005E Unrecognized attribute keyword at: '*keyword*'.**

**Cause:** The specified keyword was not supported by this ODBC driver.

---

**RBO10006E Data source name "*DSN*" is not defined, and there is no Default data source.**

**Cause:** The Data Source Name string you passed was not defined in the local odbcc.ini file, nor was there a Default data source entry. SQLConnect requires a valid data source to connect to a Red Brick server.

**Response:** Use one of the valid defined Data Source Names (which you can enumerate by calling SQLDataSources), or define a valid Default data source, or define the data source name to which you were trying to connect.

---

**RBO10007W Keyword empty or has no value, at '*keyword*'.**

**Cause:** You passed SQLDriverConnect a connection string containing a substring such as "...;=value;..." or "...;keyword;..."

**Response:** The correct syntax is "...;keyword=value;..." Correct the connection string before passing it to SQLDriverConnect again.

---

**RBO10008E Duplicate keyword '*keyword*' second value ignored.**

---

**RBO10009E Unsupported keyword '*keyword*' in ODBC escape string.**

**Cause:** You passed SQLPrepare or SQLExecDirect or SQLNativeSql an SQL statement string containing an ODBC escape sequence { etc. } or --(\* etc. \*)--; however, the indicated keyword type was not supported.

**Response:** Do not use this ODBC escape type in your SQL statement strings.

---

**RBO10010E** Function call interrupted another ODBC function.

**Cause:** Your application called an ODBC function with a particular ODBC handle (HDBC or HSTMT). Before that call could return, your application attempted to call a second ODBC function, passing the same handle, or an HSTMT owned by the same HDBC. In order to not damage critical internal data structures, the second call was rejected. Only SQLCancel is allowed during another ODBC call.

**Response:** Multiple application threads can use ODBC concurrently, but only if each thread is using a different connection. If your application has independent threads competing to use the same ODBC connection, guard your ODBC calls with critical sections. If, on the other hand, the second ODBC function was called by a signal handler, consider setting a flag to request mainline code to perform the ODBC function call.

---

**RBO10011E** Dynamic SQL error. The application must provide the exact number of locations that the output values require.

---

**RBO10012W** Cancel already requested, please wait.

**Cause:** Your application called SQLCancel while another ODBC function was executing. Before the interrupted ODBC function could return, the application called SQLCancel again. The first cancel request had been noted and would have been carried out, but it had not yet completed.

**Response:** Wait until the request has been carried out.

---

**RBO10013E** Connection in use.

---

**RBO10014E** DBC not connected.

---

**RBO10018E** *'Parameter'* parameter *'parameter\_number'* may be put only once.

---

**RBO10019E** Cannot append to NULL parameter value.

---

**RBO10020E** A cursor is already open for this HSTMT.

---

**RBO10023E** Cannot disconnect because a transaction is pending.

---

**RBO10026E** Cursor name *'cursor\_name'* is too long (max *limit* bytes).

---

**RBO10027E** Cursor name not unique within DBC.

---

**RBO10028E** COMMIT and ROLLBACK are invalid statement strings; use SQLTransact instead.

---

**RBO10029E** Statement syntax error.

---

**RBO10031E** Required attribute *attribute* is missing.

---

**RBO10032E** Dialog box handler error *error\_number*.

---

**RBO10033E** Invalid request type *request\_type*.

---

**RBO10034E** No '=' sign in string *'string'*.

---

**RBO10035E** Empty keyword in string *'string'*.

---

**RBO10036E** Cannot store *'name'* value *'value'*.

---

**RBO10037E** *'string'* cannot be used as a data source name.

---

**RBO10038E** Column *column number*: Invalid NULL indicator pointer.

RBO10039E	odbx_init called with <i>entry_size</i> entry array; was compiled for <i>max_size</i> entries.	RBO10081E	SQL_NEED_DATA pending; only SQLParamData, SQLPutData or SQLCancel may be called.
RBO10040E	Invalid radio-button ID <i>button_id</i> for <i>button</i> .	RBO10085E	Invalid transaction operation code specified ( <i>code</i> ).
RBO10041E	No SCFE flag for attribute <i>attribute</i> .	RBO10087E	Qualifier name too long: <i>size</i> bytes.
RBO10044E	Invalid dialog-box attribute ID <i>attribute</i> .	RBO10088E	Owner name too long: <i>size</i> bytes.
RBO10045E	SQLPutData exceeded max data length for this datatype.	RBO10089E	Table name too long: <i>size</i> bytes.
RBO10046E	Could not allocate memory for <i>where</i>	RBO10090E	Column name too long: <i>size</i> bytes.
RBO10051E	Cannot fit <i>value</i> value into internal <i>size</i> -byte buffer.	RBO10091E	Procedure name too long: <i>size</i> bytes.
RBO10053E	Invalid column number <i>column_number</i> .	RBO10093E	Table type string too long:
RBO10054E	Invalid parameter number <i>param_number</i> .	RBO10095E	Invalid qualifier length <i>size</i> .
RBO10059E	Invalid SQL_CURRENT_QUALIFIER: <i>qualifier</i> , only valid value is: <i>value</i> .	RBO10096E	Invalid owner length <i>size</i> .
RBO10068E	Invalid option <i>option</i> specified.	RBO10097E	Invalid fColType <i>type</i> .
RBO10070E	Invalid argument specified: <i>value</i>	RBO10098E	Invalid table name length <i>size</i> .
RBO10075E	Connection is still active.	RBO10100E	Invalid output buffer size.
RBO10078E	Statement not SELECT or not PREPARED.	RBO10103E	Invalid parameter type: <i>parameter_type</i> .
		RBO10105E	Login timeout not supported.
		RBO10106E	Translation DLL not supported.
		RBO10108E	Row-wise binding not supported.

RBO10109E	MAX LENGTH not supported.
RBO10111E	MAX ROWS not supported.
RBO10112E	Asynchronous mode not supported in this environment.
RBO10113E	SQL_PACKET_SIZE option not supported.
RBO10114E	SQL_QUIET_MODE option not supported.
RBO10115E	<i>'function'</i> supported.
RBO10116E	The fetch direction ' <i>option</i> ' is not supported in SQLFetchScroll.
<p><b>Cause:</b> Unsupported fetch direction was supplied to SQLFetchScroll.</p> <p><b>Response:</b> Use SQL_FETCH_NEXT only with SQLFetchScroll.</p>	
RBO10117E	Setting descriptor array size for bulk insert or fetch is not supported.
<p><b>Cause:</b> SQLSetDescField with SQL_DESC_ARRAY_SIZE or SQLSetStmtAttr with SQL_ATTR_PARAMSET_SIZE is not supported.</p> <p><b>Response:</b> Insert or fetch one row at a time.</p>	
RBO10118E	Array of parameters not supported in a SELECT statement.
<p><b>Cause:</b> A SELECT statement with parameters cannot be executed with an array of parameter values.</p> <p><b>Response:</b> Use only one row of parameters for SELECT statements.</p>	

RBO10119E	SQL_DESC_ARRAY_SIZE value should be between 1 and <i>size</i> .
<p><b>Cause:</b> Parameter or fetch buffer array size value was not within the specified range.</p> <p><b>Response:</b> Use a parameter array size within the specified range.</p>	
RBO10125E	All SQL_DATA_AT_EXEC params should have been supplied.
RBO10126E	Default parameter support not available; param: <i>param</i> .
RBO10127E	Data type <i>type</i> out of range.
RBO10129E	Cannot find buffer for SQL_DATA_AT_EXEC parameter <i>parameter</i> .
RBO10132E	Internal error: ' <i>error_msg</i>
RBO10135E	Required bind pointer was NULL.
RBO10140E	Corrupted bind list found while unbinding column in SQLBindCol.
RBO10141E	Buffer must be at least 1 byte long.
RBO10143E	Unable to open logfile: <i>log_file</i> , cancel requested.
RBO10148E	NULL data pointer is invalid.
RBO10150E	UNIQUE_ID buffer too small, size: <i>size</i> ; need atleast <i>minimum_size</i> bytes.
RBO10152E	Function sequence error ' <i>sequence_error_reason</i>

RBO10153E	For update specified on a read-only connection.
RBO10154E	Invalid cursor name ' <i>cursor_name</i> '.
RBO10155E	No cursor name.
RBO10156E	Invalid cursor state. Cursor not open.
RBO10157E	No pending unbound column data.
RBO10158E	An operation is pending on this connection; please wait.
RBO10159E	An async operation ' <i>pending_operation</i> ' pending; must call the same function.
RBO10160E	Operation cancelled.
RBO10161E	Invalid scfe result: expecting result ' <i>exp_result</i> ', got result ' <i>got_result</i> '.
RBO10162W	Could not disconnect.
RBO10163I	No processing to cancel. SQLCancel will act as SQLFreeStmt(SQL_CLOSE).
RBO10164E	Cannot remove data source name.
RBO10165E	Cannot add data source name.
RBO10166E	Cannot edit data source without its name.

---

**RBO10167E Attempt to initiate a new SQL Server operation with results pending.**

**Cause:** The application called SQLPrepare, SQLExecute, or SQLExecDirect when there was an open cursor in some other statement handle.

**Response:** Contact the data warehouse administrator or the tool vendor.

---

**RBO10169E Connect option '*option*' not supported.**

---

**RBO10170W Option *option* value *value* not supported, changed to *substitute*.**

**Cause:** The application attempted to set an unsupported option value. The driver substituted a supported value in its place.

**Response:** Ensure that the application's functionality does not depend upon the unsupported value. Alter the application logic to not request the unsupported value, or alter the application logic to not depend upon the semantics of the unsupported value.

---

**RBO10171W Unrecognized table type '*type*'.**

**Cause:** The application passed an unsupported table type to SQLTables, which the driver ignored when constructing its query.

**Response:** Ensure that the application's functionality does not depend on enumerating tables of the unsupported type.

---

**RBO10172E Connection Pooling not supported.**

**Cause:** The driver does not support connection pooling.

**Response:** Avoid setting/accessing the Environment attribute with this option.

---

**RBO10173E Connection Pooling Match not supported.**

**Cause:** The driver does not support CP\_MATCH.

**Response:** Avoid setting/accessing the Environment attribute with this option.

---

**RBO10174E Invalid attribute value was specified.**

**Cause:** The value was not valid for the FieldIdentifier argument.

**Response:** Specify a valid value for the FieldIdentifier.

---

**RBO10175E Inconsistent descriptor information.**

**Cause:** Descriptor information checked during a consistency check was not consistent.

**Response:** Specify a valid type for SQL\_DESC\_TYPE/SQL\_DESC\_CONCISE\_TYPE.

---

**RBO10176E Implementation Row Descriptors (IRDs) cannot be modified.**

**Cause:** The DescriptorHandle argument was associated with an IRD, and the FieldIdentifier argument was not SQL\_DESC\_ARRAY\_STATUS\_PTR or SQL\_DESC\_ROWS\_PROCESSED\_PTR.

**Response:** IRD can be set only for SQL\_DESC\_ARRAY\_STATUS\_PTR or SQL\_DESC\_ROWS\_PROCESSED\_PTR.

---

**RBO10177E Invalid Descriptor Index.**

**Cause:** The index specified for the record number of the descriptor is wrong.

**Response:** Specify a correct index.

---

**RBO10178E Invalid Descriptor FieldIdentifier.**

**Cause:** The value specified for the FieldIdentifier argument was not an ODBC-defined field, or the FieldIdentifier argument was invalid for the DescriptorHandle argument, or the FieldIdentifier argument was a read-only, ODBC-defined field.

**Response:** Specify a valid FieldIdentifier.

---

**RBO10179E Invalid Attribute or Option Identifier.**

**Cause:** The attribute is invalid.

**Response:** Pass a valid attribute.

---

**RBO10180E Invalid use of an automatically allocated descriptor handle.**

**Cause:** The descriptor is implicit and cannot be used for this function.

**Response:** Pass an explicit descriptor.

---

**RBO10181E Query Timeout value should be between 0 and 65535.**

**Cause:** The Timeout value was not within the specified range.

**Response:** The Timeout value should be between 0 and 65535.

---

**RBO10182E The maxrows value should be greater than 0.**

**Cause:** The maxrows value was not greater than the specified minimum.

**Response:** The maxrows value should be greater than 0.

---

**RBO10183W Option value changed.**

**Cause:** The maxrows value was changed when a cursor was already open.

**Response:** After the cursor closes, the maxrows value will change to the value specified.

---

**RBO10184E Invalid cursor state.**

---

**RBO10185W Option value changed, SQL\_DESC\_DATA\_PTR cannot be set for IPD.**

**Cause:** The SQL\_DESC\_DATA\_PTR field in the IPD can be set only to force a consistency check. In a subsequent call to SQLGetDescField or SQLGetDescRec, the driver is not required to

return the value to which  
SQL\_DESC\_DATA\_PTR was set.

**Response:** The driver returns NULL for  
SQL\_DESC\_DATA\_PTR for an IPD.

---

**RBO10186E** Invalid use of a null pointer.

---

**RBO10187E** Too few application parameters  
bound.

---

**RBO10188E** Could not initialize mutex (errno  
= *os\_error\_number*).

---

**RBO10189E** Could not lock mutex (errno =  
*os\_error\_number*).

---

**RBO10190E** Could not unlock mutex (errno =  
*os\_error\_number*).

---

**RBO10191E** Could not get thread-specific data  
(errno = *os\_error\_number*).

---

**RBO10192E** Could not set thread-specific data  
(errno = *os\_error\_number*).

---

**RBO10193E** The query timeout functionality is  
disabled for this application.

**Cause:** The query timeout functionality is not  
available to this application because the  
configuration parameter  
DISABLE\_QUERY\_TIMEOUT is enabled.

**Response:** If query timeout is needed, remove  
the name of this application from the  
DISABLE\_QUERY\_TIMEOUT option in the  
rbodbc32.ini file and run the application again.

---

**RBO10194E** Locale value '*locale\_name*' is  
invalid.

**Cause:** The locale setting is incorrect.

**Response:** Set a valid locale setting.

---

**RBO10201E** Insufficient global memory.

---

---

**RBO10202E** Insufficient local memory.

---

**RBO10203E** Invalid anchor pointer specified.

---

**RBO10204E** Invalid message structure  
specified.

---

**RBO10205E** Invalid processing mode  
specified.

---

**RBO10206E** This feature is not implemented  
yet.

---

**RBO10207E** Unable to free global memory.

---

**RBO10208E** Unrecoverable internal error.

**Response:** Contact Customer Support.

---

**RBO10209E** Error encountered during  
simulated communication call.

---

**RBO10210E** Invalid SCFE\_CTYP\_xxx column  
type.

---

**RBO10211E** Unsupported SCFE\_CTYP\_xxx  
column type.

---

**RBO10212E** Invalid column length specified.

---

**RBO10213E** Invalid column precision.

---

**RBO10214E** Invalid column scale.

---

**RBO10215E** Fetching a look-ahead allowed  
read-only cursor may not be  
mixed with other requests.

---

**RBO10216E** The AUTOCLOSE option cannot  
be specified when fetching a  
look-ahead allowed read-only  
cursor.

---



RBO10217E	Invalid cursor code.
RBO10218E	INTERNAL ERROR: Contact Customer Support.
RBO10219E	Invalid read-only fetch request.
RBO10220E	Invalid SCFE_DTYP_xxx data type.
RBO10221E	Invalid data length.
RBO10222E	Invalid data precision.
RBO10223E	Invalid data scale.
RBO10224E	Data returned for input parameter in error.
RBO10225E	Invalid SFEX_CTYP_xxx column type.
RBO10226E	Unsupported SFEX_CTYP_xxx column type.
RBO10227E	Communication error: Network connection has failed.
RBO10228E	Fatal communication error.
RBO10229E	Debugging string is too long.
RBO10230E	Post-message failed within SCFE. Application is likely to hang.
RBO10231E	Buffer overflow.
RBO10232E	Attempt to buffer too large an item.

RBO10233E	Attempt to allocate too large a memory buffer.
RBO10234E	Debugging has been disabled.
RBO10235E	Floating point overflow or underflow.
RBO10236E	Invalid floating point data.
RBO10237E	Invalid digit nibble in decimal data.
RBO10238E	Invalid sign nibble in decimal data.
RBO10239E	The RX communication layer version is down level.
RBO10240E	Invalid request structure specified.
RBO10241E	Attempt to process an empty request.
RBO10242E	Invalid SCFE_REQT_xxx request type.
RBO10243E	Attempt to process before login is complete.
RBO10244E	Attempt to process before logoff is complete.
RBO10245E	Attempt to process a request while another is pending.
RBO10246E	Attempt to process a request before claiming previous result.
RBO10247E	Attempt to claim an empty result.

RBO10248E	The SCFE executable module is at a lower version than the SCFE-caller requires.
RBO10249E	Unsupported SSFE to SCFE protocol version.
RBO10250E	Result offset out of bounds.
RBO10251E	Communication error.
RBO10252E	Invalid SQL communication area specified.
RBO10253E	Attempt to login with an anchor that is in use.
RBO10254E	Attempt to process when not logged in.
RBO10255E	Request offset out of bounds.
RBO10256E	Windows unable to create PROC INSTANCE.
RBO10257E	Attempt to reallocate a smaller size.
RBO10258E	Attempt to reallocate a non-allocated pointer.
RBO10259E	Result section synchronization error.
RBO10260E	Missing error information from SSFE.
RBO10261E	Attempt to cancel while SCFE is waiting for an SSFE error.
RBO10262W	More results exist.

---

RBO10263W Given SQLDA is too small.

---

RBO10264W Cancel processed, but completion message was already posted.

---

RBO10265W Logout was done synchronously; no message will be posted.

---

RBO10266W Successful asynchronous login.

---

RBO10267W Successful asynchronous logout.

---

RBO10268E **Column** *column number*: **Invalid conversion from server type to client type.**

**Cause:** Your application tried to retrieve a server value of a particular datatype into a variable of a datatype into which this server value's datatype cannot be converted. For example, you might be trying to retrieve a DATE column into an integer variable.

**Response:** Make the application bind a variable of a compatible type, or use an RSQL conversion function to coerce the server value into a type compatible with the application's variable.

---

RBO10269E **Column** *column number*: **Error converting from server type to client type.**

**Cause:** Your application tried to retrieve a server value of a particular datatype into a variable of a datatype into which this server value cannot be converted. For example, you might be trying to store a non-numeric character string into an integer variable.

**Response:** Make the application bind a variable of a type that can accommodate the server's value. Note that all types can safely be retrieved as character strings.

---

RBO10270E **Operation halted due to errors.**

**Cause:** Because of the other errors already noted for this function, execution cannot proceed.

**Response:** Correct the other errors before retrying the operation.

---

**RBO10271E Error while processing column *column number*.**

**Cause:** An error occurred while processing the column identified by this message. This message provides the column number; the other message identifies the nature of the error.

**Response:** Correct the other error before retrying the operation.

---

**RBO10272W Column *column number*: the returned column value was truncated.**

**Cause:** The buffer used to retrieve this column could not accommodate the entire value. If it was a string value, excess characters were truncated. If it was a numeric value, fractional decimal places were truncated.

**Response:** Bind a longer string buffer, or retrieve the numeric value into a datatype that can accommodate its fractional value.

---

**RBO10273E Column *column number*: value out of range for destination type.**

**Cause:** The datatype into which you wanted to retrieve this column could not accommodate the value.

**Response:** Use a datatype capable of storing a larger number.

---

**RBO10274E Column *column number*: error attempting data conversion.**

**Cause:** The value you were trying to retrieve is inappropriate for the datatype into which you wanted to store it. For example, fetching a non-numeric character string into a numeric type, or a string containing an invalid date value into SQL\_C\_DATE, could cause this error.

**Response:** Use the datatype appropriate for the value. Note that SQL\_C\_CHAR can accommodate values of any type.

---

**RBO10275E Bad information request type *info type*.**

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10276E No indicator pointer supplied for bound column *column number*.**

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10277E Indicator pointer was supplied for unbound column *column number*.**

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10278E You cannot call SQLGetData for a bound column (column *column number*).**

**Cause:** SQLGetData can only be called for columns not already bound by SQLBindCol. SQLGetData has detected that it is being called for a bound column.

**Response:** Change the application to interrogate its bound buffer for the value of this column, rather than calling SQLGetData for it.

---

**RBO10279W "Binary" value stored in CHAR column is not a valid hexadecimal string; passing through unchanged.**

**Cause:** The application requested to store and retrieve binary data in a CHAR column. To do so, the ODBC driver expands the binary data into a hexadecimal string for storage, and then converts it back to binary on retrieval. However, the retrieved CHAR value was not a valid hexadecimal string. (It might have been inserted by the TMU or by another application unaware of this application's special use of this column.) The ODBC driver returned the retrieved string

value unchanged, which might confuse the application, which is expecting a binary byte string.

**Response:** Determine which of the following cases is applicable:

(1) The ODBC driver is wrong about the application's intended use of the column in question. If your application binds a CHAR column using SQL\_C\_BINARY, and there is an entry in your \WINDOWS\RBODBC16.INI or RBODBC32.INI file in the form  
CHAR\_COLUMN\_BINARY=  
application\_name.exe, then the ODBC driver will assume that the application intends to use that CHAR column as if it were a BINARY column (a datatype that is presently unsupported by the server). If this is not the case, either remove your application's name from the appropriate .INI file entry, or modify your application to avoid using SQL\_C\_BINARY with this column.

(2) The column is being used as a "binary" column by this application, but as an ordinary CHAR column by other applications or the TMU; avoid using this column inconsistently. If you need to force "binary" values into the column for use by the current application, insert each value as a hexadecimal string with an even number of digits. Refrain from all other uses of this column.

---

**RBO10280W Parameter *param number*: value was truncated.**

**Cause:** Some part of the parameter value could not be accommodated by the SQL datatype or scale passed to SQLBindParameter. If the parameter value is a floating-point type, some fractional digits may have been truncated when storing into an integral type, or a fixed-precision type with an insufficient scale. If the parameter is a TIMESTAMP, storing into DATE with a nonzero time component causes the time to be truncated.

**Response:** Review the SQL datatype, precision, and scale passed to SQLBindParameter to ensure that they are appropriate for this parameter value and for the parameter marker in the SQL statement.

---

**RBO10400F Winsock DLL not found.**

---

**RBO10401F Winsock version mismatch.**

---

**RBO10402F You need to identify service.  
Format is hostname:servername.**

---

**RBO10403F Invalid port: *port*.**

**Cause:** The specified port string was neither a valid decimal port number nor a named service recognized by getservbyname().

**Response:** Specify the correct host:port string for your server.

---

**RBO10404F Could not allocate memory.**

**Response:** Close some applications and try again.

---

**RBO10405F Internal error: Incorrect arguments  
for RX\_OpenComm.**

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10406F Host not found: *host name*.**

**Cause:** The specified host name was neither a valid dotted-decimal IP address nor a host name string recognized by gethostbyname().

**Response:** Make sure that you specified the server's host:port string correctly. Make sure that DNS is working properly on the client machine. Try to 'ping' the host name.

---

**RBO10407F Could not create socket. OS error:  
*OS messager*no.**

**Cause:** The client's socket() call failed.

**Response:** Make sure that the application has not consumed all available file handles. On Windows, make sure that you are using one of the supported protocol stacks.

---

**RBO10408F** Could not connect to the server at *host:port*. OS error: *OS message***errno**.

**Cause:** The client's connect() call failed, for the reason stated.

**Response:** Check the host and the service, and run the application again.

---

**RBO10409F** Could not send to server or the server timed out. OS error: *OS message***errno**.

**Cause:** The server timed out because an idle timeout value was specified for the server. Confirm that the value was set for the connection. If no idle timeout was specified, then it was an OS error.

**Response:** Contact your System Administrator and confirm if a idle timeout value was specified.

---

**RBO10410F** Could not receive from the server. OS error: *OS message***errno**.

---

**RBO10411F** Error calling SCFE  
*have\_result:errno*.

---

**RBO10412F** Error calling SCFE  
*have\_section:errno*.

---

**RBO10413F** Error reported by SSFE on comm  
*layer:errno*.

---

**RBO10414F** Internal error: comm pending  
when comm operation issued.

---

**RBO10415F** Unknown protocol name  
*"protocol": OS error: OS message***errno**.

**Cause:** The specified protocol name was not resolved by getprotobyname().

**Response:** Confirm that your protocol stack (on Windows, your WinSock implementation) is supported by the Red Brick Client Connector Pack.

---

**RBO10416F** Protocol error: incorrect  
handshake with server.

**Cause:** The ODBC library was able to open a socket to talk to the IBM Red Brick Warehouse API daemon, but the server failed to send its initial packet, either because the server process was unable to start, or because the program listening to the specified port was not really a Red Brick Warehouse API daemon.

**Response:** Make sure that the server *host:port* string specified is correct for the Red Brick server to which you intend to connect.

---

**RBO10417F** Attempt to signal server process  
failed. OS error: *OS message***errno**.

---

**RBO10418F** Environment variable  
RB\_CONFIG and/or RB\_HOST  
not set or too long.

---

**RBO10419F** Could not open local connection  
to the daemon. OS error: *OS message***errno**.

---

**RBO10420F** Could not write to daemon  
through local connection. OS  
error: *OS message***errno**.

---

**RBO10421F** Cancel request timed out.

**Cause:** Server might have stopped executing or connection might have been dropped.

---

**RBO10422E** Operation interrupted due to  
cancel request.

---

**RBO10423I** Beginning logging session.

---

**RBO10424F** Could not get system directory.

---

**RBO10425F** Error checking if the host *host* is  
same as local machine.

---

---

**RBO10426F Invalid server specification** *"server string". Correct format is '<host>:<port>' or '<port>'.*

**Cause:** The syntax of the SERVER string is invalid, either as passed to SQLDriverConnect or as found in the data-source definition.

**Response:** Specify the correct host:port string for the server to which you intend to connect.

---

**RBO10427F Unknown request type** *request type.*

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10428F RBWAPID could not start server:**  
**see server logs for details.**

**Cause:** RBWAPID either could not start a new session for the connection or could not fork a new server process.

**Response:** Wait a while and then try again. On NT, try reducing the STACK\_SIZE config parameter, if it is specified.

---

**RBO10429F Error in setting socket option. OS error:** *OS message~~rr~~no.*

**Cause:** The setsockopt function failed for the reason stated in the message.

**Response:** Confirm that the protocol stack selected is supported by the Red Brick Client Connector Pack.

---

**RBO10430W Could not connect to server via UDS** *"UDS name", OS error: OS message~~rr~~no. Retrying with inet socket.*

**Cause:** The ODBC library was unable to establish a connection with the local server via the stated UNIX-domain socket (UDS), for the reason stated.

**Response:** Check to ensure that the server is running (the UDS will not exist unless the server

is running). Check to ensure that RB\_CONFIG is correct for the server. The UDS is assumed to be located in the directory named in RB\_CONFIG. If the connection string passed to SQLDriverConnect contains an explicit RB\_CONFIG=value, that connection string will be used first. If there is an RB\_CONFIG item in the data-source definition, that will be used next, and the value of the environment variable RB\_CONFIG will be used last. (Note: risql and risqlrpt explicitly pass the value of the environment variable RB\_CONFIG to SQLDriverConnect, which prioritizes the environment variable over the other two choices for those applications.) The client will retry by attempting to connect via an inet socket instead.

---

**RBO10431F Cannot read local host name. OS error:** *OS message~~rr~~no.*

**Cause:** The gethostname function failed for the reason stated in the message.

**Response:** Make sure that the protocol stack is supported by the Red Brick Client Connector Pack.

---

**RBO10432F Error waiting for socket. OS error:** *OS message~~rr~~no.*

**Cause:** The TCP/IP select() function failed for the reason stated in the message.

**Response:** Make sure that the server to which you were connected is still running. Make sure that the protocol stack is supported by the Red Brick Client Connector Pack.

---

**RBO10433F Internal error: select() returned inconsistent results.**

**Cause:** The TCP/IP select() function implied that the socket was in an unexpected state.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10434F The server is no longer available.**

**Cause:** The TCP/IP select() function reports that an exception has occurred on the socket. This

usually means that the server has shut down.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10435F Internal error: getCIUs callback returned *error*.**

**Cause:** An internal function returned an unrecognized code.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10436W RB\_CONFIG directory "*RB\_CONFIG*" does not exist.**

**Cause:** When attempting to connect to the server with a UNIX-domain socket, the socket could not be opened because RB\_CONFIG did not identify a directory.

**Response:** Correct the RB\_CONFIG setting and retry.

---

**RBO10437W Cannot access RB\_CONFIG directory "*RB\_CONFIG*": OS *message* *errno*.**

**Cause:** When attempting to connect to the server with a UNIX-domain socket, the socket could not be opened because RB\_CONFIG could not be accessed for the reason given.

**Response:** Correct the RB\_CONFIG setting and retry.

---

**RBO10438W The file identified by RB\_CONFIG "*RB\_CONFIG*" is not a directory.**

**Cause:** When attempting to connect to the server with a UNIX-domain socket, the socket could not be opened because RB\_CONFIG named something that is not a directory.

**Response:** Correct the RB\_CONFIG setting and retry.

---

**RBO10439W There is no UNIX-domain socket named "*UDS name*".**

**Cause:** When attempting to connect to the server with a UNIX-domain socket, the socket could not be opened because there was no socket with the correct name in the RB\_CONFIG directory. The specified port number might be incorrect, or the server might not be running.

**Response:** Check that RB\_CONFIG identifies the correct directory. Check that the port number (embedded in the UDS name) is correct. Check that the server's API daemon is running.

---

**RBO10440W Cannot access the UNIX-domain socket named "*UDS name*": OS *message* *errno*.**

**Cause:** When attempting to connect to the server with a UNIX-domain socket, the socket could not be opened. Although there appeared to be an entry with the correct name in the RB\_CONFIG directory, it could not be accessed for the reason given.

**Response:** Check that RB\_CONFIG identifies the correct directory. Ensure that no other person or program has created a file with the same name shown in that directory.

---

**RBO10441W The file named "*UDS name*" is not a UNIX-domain socket.**

**Cause:** When attempting to connect to the server with a UNIX-domain socket, the socket could not be opened; although there was an entry with the correct name in the RB\_CONFIG directory, it did not identify a UNIX-domain socket.

**Response:** Check that RB\_CONFIG identifies the correct directory. Ensure that no other person or program has created a file with the same name shown in that directory.

---



---

**RBO10442F** The server has unexpectedly closed the socket. It may have stopped running.

**Cause:** The server end of the socket has been closed. The server may or may not be running, but in either case, the client can no longer communicate with it.

**Response:** Examine previous errors to see if any were fatal to the server. If there is no obvious explanation for why the server might have stopped running, record what you were doing and contact Customer Support.

---

**RBO10443E** An internal error has occurred while attempting to receive incoming data.

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10444F** A fatal internal error has occurred while attempting to receive incoming data.

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10445F** Error calling SCFE section\_buff:errno.

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10634E** Unexpected SCFE warning *number*.

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBO10698E** SQLDescribeParam is not supported with IBM Red Brick Warehouse version *version*; version 6.0.1 and later support SQLDescribeParam.

**Cause:** Application connected to a version of Red Brick Warehouse that does not support SQLDescribeParam.

**Response:** Red Brick Warehouse V6.0.1 (and later) supports SQLDescribeParam requests.

---

**RBO10699E** Query timed out after *number* seconds.

**Cause:** Application set the query timeout value, and the query execution exceeded the timeout value specified.

**Response:** Increase the query timeout value.

---

**RBC12001F** Driver TMU or TMU was interrupted or encountered a fatal error. Terminating processing.

**Cause:** Driver TMU or TMU was interrupted or encountered a fatal error. For the Driver TMU exit code, check the server log file.

**Response:** Record what you were doing and contact Customer Support.

---

**RBC12002F** Error while writing to file '*string*'. OS error: *string*.

**Cause:** The Client TMU encountered an error while writing to a file, possibly because the disk ran out of space. The corresponding OS error message is displayed.

**Response:** Correct the error and resubmit the command.

---

**RBC12003I** Connection information for Remote TMU execution:

---

**RBC12004W Supplied user name and password override control file.**

**Cause:** A warehouse user name and password were supplied as part of the rb\_tmu or rb\_ptmu command invocation. A user name and password were also specified in the TMU control file. The values supplied in the TMU control file are ignored; the user name and password supplied with the command invocation override the values supplied in the TMU control file.

**Response:** None necessary.

---

**RBC12005I Client TMU is reading data from stdin.**

**Cause:** This message indicates that the input is being read from stdin.

**Response:** None necessary.

---

**RBC12006F Could not find Winsock DLL.**

**Cause:** Could not find Winsock DLL.

**Response:** Check in the system directory for winsock.dll.

---

**RBC12007F Malloc error.**

**Cause:** Could not allocate required memory.

**Response:** Check the system memory. Increase memory allocation limit for process.

---

**RBC12008F DSN specified but not set.**

**Cause:** A Data Source Name (DSN) was specified as an environment variable but was not set.

**Response:** Set the DSN to a proper value and resubmit the command.

---

**RBC12009F DSN *string* could not be resolved.**

**Cause:** A DSN was specified, but it could not be located.

**Response:** Check the ODBC initialization file or the registry for the exact specification.

---

**RBC12010F DSN *string* does not contain SERVER section.**

**Cause:** The SERVER section is missing from the DSN specification.

**Response:** Specify the SERVER section in the DSN and resubmit the command.

---

**RBC12011F DSN *string* does not contain DATABASE section.**

**Cause:** The DATABASE section is missing from the DSN specification.

**Response:** Specify the DATABASE section in the DSN and resubmit the command.

---

**RBC12012F Could not resolve <Server>:<Port> from *string*.**

**Cause:** The SERVER section in the DSN is specified as <Server>:<Port>. This information could not be resolved.

**Response:** Correct the SERVER specification and resubmit the command.

---

**RBC12013F Could not resolve RB\_HOST.**

**Cause:** RB\_HOST was specified but not set.

**Response:** Set RB\_HOST to a proper value and resubmit the command.

---

**RBC12014F Could not resolve machine name from RB\_HOST *string*. OS error: *string*.**

**Cause:** The machine name could not be resolved from the value of RB\_HOST. Corresponding OS error message is displayed.

**Response:** Check the rbw.config file for the correct RB\_HOST specification.

---

**RBC12015F Could not resolve database.**

**Cause:** The database name could not be resolved.

**Response:** Check the rbw.config file for the

correct database specification.

---

**RBC12016F Invalid port number** *number*.

**Cause:** The Port number for the warehouse APID daemon is invalid. It is already in use, a reserved port, or out of the range of valid ports.

**Response:** Correct the port number and resubmit the command.

---

**RBC12017F Could not open file 'string' for read. OS error:** *string*.

**Cause:** File could not be opened for reading. The corresponding OS error message is displayed.

**Response:** Check the permissions, path, and name of the file and resubmit the command.

---

**RBC12018F File 'string' is empty.**

**Cause:** Specified file is empty and contains no data.

**Response:** Specify a valid file with data.

---

**RBC12019F Could not open file 'string' for write. OS error:** *string*.

**Cause:** File could not be opened for writing. The corresponding OS error message is displayed.

**Response:** Check the permissions, path, and name of the file and resubmit the command.

---

**RBC12020E Syntax error in Table Management Utility control statement at line** *number*.

**Cause:** Syntax error in the specified input statement of a TMU control file.

**Response:** Correct the syntax error in the TMU control file and resubmit the command.

---

**RBC12021W Environment variable 'string' for string is not defined.**

**Cause:** An environment variable specified in the control file is not defined.

**Response:** Define the environment variable and resubmit the command.

---

**RBC12022F Client TMU operation interrupted.**

**Cause:** Client TMU operation was interrupted by user or system.

---

**RBC12023F Could not resolve details for** *string*.

**Cause:** Client TMU could not resolve details such as the IP address for the machine identified.

**Response:** Check that the network is up and running and resolve any network errors.

---

**RBC12024F Socket creation error.**

---

**RBC12025F Fatal error initiating connection to warehouse server. OS error:** *string*.

**Cause:** The system could not make a connection to the warehouse server. The warehouse server may not be running or set up for Remote TMU requests. The corresponding OS error message is displayed.

**Response:** Set up the server for Remote TMU requests and start the server.

---

**RBC12026F Error in resolving connection details. OS error:** *string*.

**Cause:** Could not resolve the connection details for the warehouse server. The corresponding OS error message is displayed.

**Response:** Check the connection details specified.

---

**RBC12027F Error reading from socket.**

**Cause:** Could not read from socket.

---

**RBC12028F Error writing to socket.**

**Cause:** Could not write to socket.

---

**RBC12029F No acknowledgement received from Driver TMU.**

**Cause:** Client TMU could not receive acknowledgement from Driver TMU.

**Response:** The connection may be lost.

---

**RBC12030F Could not bind socket to port.**

**Cause:** Could not bind socket to port.

---

**RBC12031F Could not get socket name.**

**Cause:** Could not resolve socket name.

---

**RBC12032F Error opening a listening socket.**

---

**RBC12033F TMU Driver could not connect back to TMU Client.**

**Cause:** For a Remote TMU operation, the Driver TMU needs to connect back to the Client TMU through a different socket. The Client TMU waits to accept the connection from the Driver TMU. This message indicates that the Client TMU waited long enough for the Driver TMU to connect back and the Driver TMU may have exited with some error.

**Response:** For the Driver TMU exit code, check the server log file.

---

**RBC12034F Error setting socket options.**

---

**RBC12035F Lost connection with Driver TMU. Client TMU needs to exit.**

**Cause:** The Client TMU and Driver TMU are connected to each other through sockets. One of the programs or TMU encountered a fatal error, then exited, and the connection was lost.

**Response:** Correct the error and resubmit the command.

---

**RBC12036F Select() call failed. OS error: *string*.**

**Cause:** Corresponding OS error message is displayed.

---

**RBC12037F Could not resolve information received from Driver TMU.**

**Cause:** The Client TMU and the Driver TMU communicate with each other using a Red Brick specific protocol. The protocol was not recognized by the Client TMU.

**Response:** Record what you were doing and contact Customer Support.

---

**RBC12038F Remote TMU operation terminated abnormally.**

---

**RBC12040E No command specified after the pipe character.**

**Cause:** Pipe was specified but no command follows it.

**Response:** Specify a command after pipe character.

---

**RBC12041E Could not start program after pipe character.**

**Cause:** An output file specification started with the UNIX pipe character (|) but, the Client TMU was not able to start the command following the pipe character.

**Response:** Check the name and path of command specified after the pipe character and resubmit the statement.

---

**RBC12042F File '*string*' already exists.**

**Cause:** Tried writing to a file but a file with the same name already exists.

**Response:** Either delete the file or specify new a file name.

---

**RBC12043I Finished reading file '*string*'.**

---

---

**RBC12044F Could not resolve data coming from socket.**

**Cause:** The Client TMU and TMU communicate with each other using Red Brick specific protocol. The protocol was not recognised by Client TMU.

**Response:** Record what you were doing and contact Customer Support.

---

**RBC12045F Could not start additional threads.**

---

**RBC12046F 'string' is not a regular file.  
Cannot be read.**

**Cause:** The specified file might be a directory or a special file.

**Response:** Specify regular file.

---

**RBC12047I TMU Client waiting for TMU Driver to connect back.**

**Cause:** For a Remote TMU operation, the Driver TMU needs to connect back to the Client TMU through a different socket. The Client TMU waits to accept the connection from the Driver TMU. This message indicates that the Client TMU is still waiting for the Driver TMU to connect back.

**Response:** None necessary.

---

**RBC12048I Driver TMU client connection set to *machine\_info*.**

**Cause:** For a Remote TMU operation, the Driver TMU will connect back to the Client TMU through a different socket, as requested with the -b option in the rb\_ctmu command. The Driver TMU will use the IP address shown in the message to connect back to the client machine.

**Response:** None necessary.

---

**RBC12049E Client TMU and Driver TMU are incompatible.**

**Cause:** For a Remote TMU operation, the Client TMU and the Driver TMU must be compatible to communicate with each other effectively. This error indicates that either the client or the server

program has significantly changed, making the programs incompatible for this operation.

**Response:** Make sure that you have compatible versions of the Client TMU and Driver TMU installed. For example, if you are using the Client TMU on Windows, you might have to upgrade to a later version of the Client Connector Pack. For more information about compatibility and upgrade issues, refer to the Release Notes.



---

## Chapter 4. JDBC messages

This chapter provides a complete list of the informational, warning, and error messages issued by the IBM Red Brick Warehouse JDBC components. For information about message format, see page 15.

---

### Message listing

---

**RBJ11000E**    **Invalid column name**  
*column\_name.*

**Cause:** A column name passed to a getXXX function of ResultSet did not exist in the ResultSet.

**Response:** Provide the name of a column in the current ResultSet.

---

**RBJ11001E**    **Result set is closed.**

**Cause:** A ResultSet function was called after the ResultSet had been closed.

**Response:** Call the function that caused the exception before closing the ResultSet.

---

**RBJ11002E**    **Column *column number* : Invalid conversion from *server type* to *client type*.**

**Cause:** The application attempted to retrieve a server value of a particular datatype by using the getXXX function for a datatype to which the server value's datatype cannot be converted. For example, the server attempted to retrieve an integer value by using a getDate function.

**Response:** Use a proper getXXX function.

---

**RBJ11003E**    **Column data has already been read.**

**Cause:** The application attempted to retrieve column data after it had been retrieved already.

**Response:** Retrieve the column value only once.

---

**RBJ11004E**    **Invalid cursor state.**

**Cause:** The application attempted to retrieve column data using a getXXX function before calling next() or after retrieving all the rows in the result.

**Response:** Call the function that caused this exception after calling next() or before retrieving all the rows in the result.

---

**RBJ11005E**    **Column *column number* : number too large for destination type.**

**Cause:** The datatype in which you tried to retrieve this column value could not accommodate the value.

**Response:** Use a datatype capable of storing a larger number.

---

**RBJ11006E**    **Column *column number* : Error while attempting data conversion from *data string* to *client type*.**

**Cause:** The datatype is inappropriate for the value you attempted to retrieve.

**Response:** Use the appropriate datatype to store the value.

---

**RBJ11007E**    **The function *function\_name* is not supported for datatype *data\_type*.**

**Cause:** The application attempted to call the getBytes or getXXXStream function for a column type other than CHAR/VARCHAR.

**Response:** Use this function to retrieve the



value of a column with the CHAR/VARCHAR datatype.

---

**RBJ11100E Invalid column number** *column number.*

**Cause:** The column number passed as an argument to a getXXX function of a ResultSet or to ResultSetMetaData functions, which return metadata of a column, was less than 1 or greater than the total number of columns in the ResultSet.

**Response:** Provide a column number greater than 1 and less than the total number of columns in the current ResultSet.

---

**RBJ11101E No result set produced.**

**Cause:** The application attempted to execute an update query from an executeQuery function.

**Response:** Use an executeUpdate function to get the row count.

---

**RBJ11200E No row count produced.**

**Cause:** The application attempted to execute a query that produces a ResultSet from an executeUpdate function.

**Response:** Use an executeQuery function to get the ResultSet.

---

**RBJ11201E Parse error in SQL string.**

**Cause:** A parse error, such as mismatched parentheses or braces, occurred while parsing the SQL string.

**Response:** Correct the SQL string so all parentheses or braces match.

---

**RBJ11202E No such keyword supported.**

**Cause:** The specified keyword is not supported.

**Response:** Use a valid keyword.

---

**RBJ11203E SQL Interval not valid.**

**Cause:** The SQL interval specified in the scalar function TIMESTAMPADD or TIMESTAMPDIFF was not valid.

**Response:** Provide a valid SQL interval.

---

**RBJ11204E Unknown SQL type.**

**Cause:** The SQL type specified in the scalar function CONVERT was not valid.

**Response:** Provide a valid SQL type.

---

**RBJ11205E Attempt to initiate a new SQL Server operation with results pending.**

**Cause:** The application called executeUpdate or executeQuery when the result of a query executed on some other statement was not completely retrieved.

**Response:** Contact the data warehouse administrator.

---

**RBJ11206E Unsupported scalar function.**

**Cause:** The scalar function used in the SQL statement is not supported.

**Response:** Use only supported scalar functions.

---

**RBJ11207F Internal error in escape processing.**

**Cause:** An internal error occurred in escape processing.

**Response:** Record what you were doing and contact Customer Support.

---

**RBJ11208E Statement is already closed.**

**Cause:** The application tried to call statement-related functions after closing the statement.

**Response:** Call the function that caused this exception before closing the statement.

---

**RBJ11209E    Driver does not support  
MAX\_FIELD\_SIZE.**

**Cause:** The application tried to set maximum field size by calling the `setMaxFieldSize()` function.

**Response:** Do not use this function.

---

**RBJ11210W    Statement is cancelled.**

---

**RBJ11211E    Statement could not be cancelled.**

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBJ11212E    Query processing was canceled.**

**Cause:** User executed a cancel statement.

---

**RBJ11215E    Negative value cannot be  
specified for maximum rows.**

**Cause:** The parameter passed to `setMaxRows` was negative. The maximum row limit cannot be negative.

**Response:** Supply a non-negative value for this parameter.

---

**RBJ11216E    Update cannot be executed on  
read-only connection.**

**Cause:** The application attempted to execute an update statement on a read-only connection.

---

**RBJ11217E    Query timeout value cannot be  
negative.**

**Cause:** The application attempted to set up a negative query timeout value.

**Response:** Supply a non-negative value for this parameter.

---

**RBJ11218F    Set socket timeout failed.**

**Cause:** The socket does not support timeout.

**Response:** Record what you were doing and contact Customer Support.

---

**RBJ11300F    Could not connect to *server name*.**

**Cause:** The driver was unable to establish a connection with the server.

**Response:** The most common cause of this problem is an incorrect server name. Check the name and try again.

---

**RBJ11301F    Could not connect to port *port  
number* of *server name*.**

**Cause:** The driver was unable to establish a connection with the server.

**Response:** The most common cause of this problem is an invalid port number. Check the port number and try again.

---

**RBJ11302F    Could not read from Red Brick  
server, or server might have timed  
out.**

**Cause:** The server might be down.

**Response:** Contact the system administrator.

---

**RBJ11303F    Could not write to Red Brick  
server, or server might have timed  
out.**

**Cause:** The server might be down.

**Response:** Contact the system administrator.

---

**RBJ11304F    URL connection to *proxy* failed.**

**Cause:** An error occurred while connecting to the servlet.

**Response:** Determine if there is a problem with the web server from where you tried to load the driver.

---

**RBJ11305F    Server name is not given.**

**Cause:** A server name was not identified in the connection properties.

**Response:** Supply the server name and try again.

---

**RBJ11306F    Port number is not given.**

**Cause:** A port number was not identified in the connection properties.

**Response:** Supply a port number and try again.

---

**RBJ11307F    Invalid port number.**

**Cause:** The specified port number is invalid.

**Response:** Check the port number.

---

**RBJ11308F    Username is not given.**

**Cause:** A username was not identified in the connection properties.

**Response:** Supply a username and try again.

---

**RBJ11309F    Password is not given.**

**Cause:** A password was not identified in the connection properties.

**Response:** Supply a password and try again.

---

**RBJ11310F    Database name is not given.**

**Cause:** A database name was not identified in the connection properties.

**Response:** Supply a database name and try again.

---

**RBJ11311F    Invalid locale.**

**Cause:** The locale specified was invalid, possibly because its length was not 5 characters.

**Response:** The locale format is <language code>\_<country code>. For example: en\_us or ja\_jp.

---

---

**RBJ11312E    Connection is already closed.**

**Cause:** The application called driver functions after the connection was closed.

**Response:** All driver functions cause this exception if they are called after the connection is closed. Call the function that caused this exception before closing the connection.

---

**RBJ11313F    I/O error occurred while making the connection.**

**Cause:** An I/O error occurred while getting the connection ID from the servlet.

**Response:** Record what you were doing and call Customer Support.

---

**RBJ11314F    I/O error occurred while closing the connection.**

**Cause:** An I/O error occurred while closing the input and output streams.

**Response:** Record what you were doing and call Customer Support.

---

**RBJ11315F    RBWAPID could not start server: too many sessions or processes.**

**Cause:** RBWAPID either could not start a new session for the connection or could not fork a new server process.

**Response:** Wait a while and try again.

---

**RBJ11316F    Could not read/write from proxy.**

**Cause:** An error occurred in reading or writing from a proxy servlet.

**Response:** Record what you were doing and call Customer Support.

---

**RBJ11319E    Query timeout (*timeout value* seconds) has expired.**

**Cause:** The timeout limit expired while reading from the Red Brick server.

---

**Response:** The server might be busy. Wait a while and try again.

---

**RBJ11320E**    **Failed to get version number from servlet.**

**Cause:** Failed to retrieve the servlet version number.

**Response:** The servlet might not be up and running.

---

**RBJ11400E**    **Invalid table type** *table type*.

**Cause:** The table type is not valid.

**Response:** Valid values are either null or one or more of the following: SYSTEM TABLE, TABLE, SYNONYM, VIEW, LOCAL TEMPORARY.

---

**RBJ11401E**    **The Connection object that created the DatabaseMetaData object has pending results.**

**Cause:** This DatabaseMetaData method used the connection that created the DatabaseMetaData object to execute a statement of its own. For example, the connection is 'con' from 'con.getMetaData()'. However, the connection already has another statement that has pending results.

**Response:** Close any open result sets of the Connection object that created the DatabaseMetaData object before calling this method.

---

**RBJ11402E**    **The Connection object that created the DatabaseMetaData object has an update statement in process.**

**Cause:** This DatabaseMetaData method used the connection that created the DatabaseMetaData object to execute a statement of its own. For example, the connection is 'con' from 'con.getMetaData()'. However, the connection already has another update statement in process, which is still updating the database.

**Response:** Complete the update of the Connection object that created the

DatabaseMetaData object before calling this method.

---

**RBJ11600F**    **Protocol error : Incorrect handshake with the server.**

**Cause:** The driver was able to establish a connection with the server but the server failed to send the initial packet. This error possibly occurred because the server process was unable to start or because the program listening to the specified port was not a Red Brick API daemon.

**Response:** Make sure the host:port is correct.

---

**RBJ11601F**    **Error reported by SSFE on comm layer : errorno.**

---

**RBJ11700E**    **Invalid object type.**

**Cause:** The object passed to setObject method of PreparedStatement was not valid; it was not of the type required by any supported datatype.

**Response:** Provide an object of the proper type.

---

**RBJ11701E**    **Parameter *param number* not specified.**

**Cause:** The PreparedStatement execute function was called without specifying all the parameters.

**Response:** Set all the parameters before executing the query.

---

**RBJ11702E**    **Invalid parameter index.**

**Cause:** The parameter index was either less than 1 or greater than the maximum number of ?s in the query.

**Response:** Provide a parameter index greater than 1 and less than the total number of ?s in the SQL statement.

---

**RBJ11703E**    **The object passed does not contain a valid value of datatype *data type name*.**

**Cause:** For a setObject (int paramIndex, Object x, int targetType, int scale) function, the

Object type passed did not contain a valid targetSqlType value. For example, the setObject function was called with x as an Integer object having the value 2345 while targetSqlType was Type.TIMESTAMP.

**Response:** Rewrite the function with the appropriate parameters.

---

**RBJ11704E**    **PreparedStatement** *function name*  
**function does not take any**  
**parameters.**

**Cause:** The PreparedStatement execute methods do not override corresponding execute methods of Statement. For PreparedStatement, these functions do not take parameters.

**Response:** Do not give any parameters to these functions.

---

**RBJ11705E**    *data type value passed is either*  
**greater than infinity or less than**  
**-infinity.**

**Cause:** The float or double value to be set was either very large or very small.

**Response:** Ensure that the passed value is within the minimum and maximum values for the float or double-precision data type.

---

**RBJ11706E**    **I/O error occurred while reading**  
**from stream object.**

**Cause:** I/O error occurred while reading from the specified Reader stream object.

**Response:** Please make sure that the specified Reader stream object is available for read.

---

**RBJ11707E**    **The specified length: stream length**  
**is greater than what is available**  
**in stream object.**

**Cause:** The length parameter is greater than the number of characters in the Reader stream object.

**Response:** Please make sure that the length specified is the same as the number of characters in stream object.

---

**RBJ11708W**    **The specified length: stream length**  
**is less than the number of**  
**characters in stream object.**

**Cause:** The length parameter is less than what is available in the Reader stream object.

**Response:** Please make sure that the length specified is the same as the number of characters in stream object.

---

**RBJ11709E**    **Parameter** *parameter number* : **Value**  
**value is out of range for data type**  
**type.**

**Cause:** The value to be set was either very large or very small.

**Response:** Ensure that the passed value is within the minimum and maximum values for the target data type.

---

**RBJ11800F**    **No empty socket found. Try later.**

**Cause:** The maximum number of connections was reached and no connection timed out.

**Response:** Try connecting later or contact the administrator.

---

**RBJ11801F**    **Error in assigning a connection**  
**ID.**

**Cause:** Internal error. The connection ID was already assigned to another connection.

**Response:** Try connecting again.

---

**RBJ11802F**    **Connection not valid.**

**Cause:** Internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBJ11803E**    **Cancel request not successful.**

**Cause:** Internal error. Cancel operation failed at server end.

**Response:** Record what you were doing and contact Customer Support.

---

**RBJ11804F Connection already closed.**

**Cause:** Attempted to close a proxy connection that was already closed.

**Response:** No more operations can be performed after the connection is closed.

---

**RBJ11805F Could not connect to port *port number* of server name.**

**Cause:** The proxy was unable to establish a connection with the server. The most common cause of this problem is an invalid port number or invalid server name.

**Response:** Check the port number and server name and try again.

---

**RBJ11806F Proxy could not read/write from the Red Brick server.**

**Cause:** The proxy was unable to read data from or write data to the server. The server might have shut down.

**Response:** Check that the server is operational.

---

**RBJ11807F Proxy could not set timeout on socket.**

**Cause:** The proxy was unable to set the query timeout on the socket.

**Response:** This is a system problem. Check your network setup.

---

**RBJ11900E Parameter *parameter name* is null.**

**Cause:** The parameter value was null.

**Response:** Provide a non-null value for the parameter.

---

**RBJ11901E Driver does not support the function *function name*.**

**Cause:** The application called a function that is not supported by the driver.

**Response:** Do not use this function.

---

**RBJ11902E Driver does not support the data type *data type name*.**

**Cause:** The application called a function that is not supported by the driver.

**Response:** Do not use this function.

---

**RBJ11903E Datatype unknown.**

**Cause:** The datatype of the requested column is not supported, or the datatype passed to the function is incorrect.

**Response:** Check the datatype of the column or the datatype passed to the function.

---

**RBJ11904E Parameter *parameter name* must be null; this search criteria is not supported.**

**Cause:** This parameter is not used.

**Response:** Pass null for this parameter.

---

**RBJ11905E Parameter *parameter name* out of range.**

**Cause:** An unacceptable value was passed.

**Response:** Use an acceptable value.

---

**RBJ11906F Internal Error.**

**Cause:** This is an internal error.

**Response:** Record what you were doing and contact Customer Support.

---

**RBJ11907E Driver does not support the argument *argument value* passed to function *function name***

**Cause:** The application called a function with an argument that is not supported by the driver.

**Response:** Do not use this argument with this function.

---

**RBJ11950F    Trace file cannot be opened.**

**Cause:** The trace file specified may not have write permission.

**Response:** Check the permissions for the trace file.

---

**RBJ11951F    Invalid trace level.**

**Cause:** The trace level specified was invalid.

**Response:** Check the trace level.

---

**RBJ11952F    I/O error occurred while tracing.**

**Cause:** This is an internal error.

**Response:** Determine whether the disk is full.

---

**RBJ11960E    DataSource Property password is not set.**

**Cause:** DataSource Property password was null.

**Response:** Either define the DataSource Property password or use the DataSource getConnection(String user, String password) to get a connection.

---

**RBJ11961E    DataSource Property user is not set.**

**Cause:** DataSource Property user was null.

**Response:** Either define the DataSource Property user or use the DataSource getConnection(String user, String password) to get a connection.

---

**RBJ11963E    I/O exception occurred while trying to setLogWriter for DataSource.**

**Cause:** An error occurred trying to create a PrintWriter object with the set value for traceFile.

**Response:** Verify the DataSource Property traceFile.

---

**RBJ11971E    Number of PooledConnections exceeds maximum number of connections allowed.**

**Cause:** Number of PooledConnections exceeds maximum allowed connections.

**Response:** Close one of the connections in use and try again, or increase the maximum number of connections.

---

**RBJ11972E    Failed to get a PooledConnection cause.**

**Cause:** Failed to load JNDI properties into the environment context and retrieve DataSource from the JNDI service.

**Response:** 1. Verify the JNDI server properties. 2. Check the availability of the JNDI service in the provider URL specified as JNDI property. 3. Check the deployment of the DataSource with connectionPooling options.



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