

MySQL for Database Administrators

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Table of Contents

Introduction to MySQL	1-1
Introduction to MySQL.....	1-2
Course Goals.....	1-3
Course Lesson Map.....	1-5
Introductions.....	1-8
Classroom Environment.....	1-9
MySQL Overview.....	1-10
Acquisitions of the MySQL Company.....	1-11
MySQL Is Powering the World!.....	1-12
MySQL Database Server Editions.....	1-13
MySQL Tools.....	1-14
MySQL Connectors and APIs.....	1-15
MySQL Services.....	1-16
Community Support.....	1-17
Oracle Lifetime Support for MySQL.....	1-18
MySQL-Supported Operating Systems.....	1-19
MySQL Websites.....	1-20
MySQL Curriculum Footprint.....	1-21
MySQL Certification.....	1-22
MySQL Online Documentation.....	1-23
Architecture	2-1
Architecture.....	2-2
Objectives.....	2-3
MySQL Architecture.....	2-4
Client Programs.....	2-5
Administrative and Utility Programs.....	2-6
MySQL Server.....	2-7
Server Process.....	2-8
Connection Layer.....	2-9
Communication Protocols.....	2-10
SQL Layer.....	2-11
SQL Statement Processing.....	2-12
Storage Layer.....	2-13
Storage Engine: Overview.....	2-14
Features Dependent on Storage Engine.....	2-15
How MySQL Uses Disk Space.....	2-16
How MySQL Uses Memory.....	2-18
Memory Structures.....	2-19
MySQL Plugin Interface.....	2-21
Summary.....	2-22
Practice 2-1 Overview: Quiz.....	2-23
System Administration	3-1
System Administration.....	3-2
Objectives.....	3-3
MySQL Server Distributions.....	3-4
MySQL Binary Distributions.....	3-5
MySQL Source Distributions.....	3-6

MySQL RPM Installation Files for Linux	3-7
Linux MySQL RPM Installation Process	3-8
Linux MySQL Server Installation Directories.....	3-9
Starting MySQL Server on Linux.....	3-10
Stopping MySQL Server on Linux.....	3-11
Improving Installation Security	3-12
Windows MySQL Server Installation Directory.....	3-13
Running MySQL on Windows.....	3-14
Data Directory.....	3-15
Upgrading MySQL Server Release	3-16
Checking Upgraded Tables	3-17
Employing Multiple Servers	3-18
Multiple Server Options.....	3-19
Summary.....	3-20
Practice 3-1 Overview: Install the MySQL Server	3-21
Practice 3-2 Overview: MySQL Data Directory	3-22
Practice 3-3 Overview: Start and Stop the MySQL Server.....	3-23
Server Configuration	4-1
Server Configuration	4-2
Objectives.....	4-3
MySQL Configuration Options	4-4
Reasons to Use Option Files	4-5
Option File Groups.....	4-6
Writing an Option File.....	4-7
Option File Locations	4-8
Startup Options in an Option File	4-9
Sample Option Files.....	4-11
Displaying Options from Option Files	4-12
Server System Variables	4-14
Dynamic System Variables.....	4-15
Displaying Dynamic System Variables	4-16
Structured System Variables	4-17
Server Status Variables.....	4-19
SQL Modes	4-21
Setting the SQL Mode.....	4-22
Common SQL Modes.....	4-23
Log Files.....	4-24
Log File Usage Matrix	4-25
Binary Logging.....	4-26
Binary Logging Formats	4-27
List Binary Log Files.....	4-28
View Binary Log Contents	4-29
Deleting Binary Logs.....	4-31
Summary.....	4-32
Practice 4-1 Overview: Edit and Create a Configuration File	4-33
Practice 4-2 Overview: Quiz	4-34
Practice 4-3 Overview: Further Practice: Server Configuration.....	4-35
Clients and Tools.....	5-1
Clients and Tools	5-2

Objectives.....	5-3
Command-Line Client Programs.....	5-4
Invoking Command-Line Clients.....	5-5
Connection Parameter Options.....	5-7
Quiz.....	5-8
Invoking mysql Client.....	5-9
mysql Client: Safe Updates.....	5-10
mysql Client: Output Formats.....	5-11
mysql Client: MySQL Client Commands.....	5-12
mysql Client: SQL Statements.....	5-14
mysql Client: Help on SQL Statements.....	5-16
mysql Client: SQL Statement Terminators.....	5-17
mysql Client: Special Statement Terminators.....	5-18
mysql Client: Redefining the Prompt.....	5-19
mysql Client: Using Script Files.....	5-20
mysqladmin Client.....	5-21
Invoking the mysqladmin Client.....	5-22
Quiz.....	5-24
MySQL Tools.....	5-25
MySQL Enterprise Monitor.....	5-26
MySQL Enterprise Monitor: Dashboard.....	5-27
MySQL Enterprise Monitor: Access.....	5-28
MySQL Workbench.....	5-29
MySQL Workbench: GUI Window.....	5-30
MySQL Workbench: Access.....	5-31
MySQL Proxy.....	5-32
MySQL Connectors.....	5-33
Third-Party APIs.....	5-34
Quiz.....	5-35
Summary.....	5-36
Practice 5-1 Overview: Invoke the mysql Client.....	5-37
Practice 5-2 Overview: Invoke the mysqladmin Client.....	5-38
Practice 5-3 Overview: View the MySQL Enterprise Monitor Demos.....	5-39
Practice 5-4 Overview: View the MySQL Workbench Demos.....	5-40
Data Types.....	6-1
Data Types.....	6-2
Objectives.....	6-3
Data Types: Overview.....	6-4
Creating Tables with Data Types.....	6-5
Numeric Data Types.....	6-6
Character String Data Types.....	6-8
Character Set and Collation Support.....	6-10
Binary String Data Types.....	6-11
Temporal Data Types.....	6-13
Setting Data Types to NULL.....	6-14
Creating Tables with Column Attributes.....	6-15
Column Attributes.....	6-16
Choosing Data Types.....	6-18
Summary.....	6-19

Practice 6-1 Overview: Quiz	6-20
Practice 6-2 Overview: Set a Data Type.....	6-21
Obtaining Metadata.....	7-1
Obtaining Metadata.....	7-2
Objectives.....	7-3
Metadata Access Methods	7-4
INFORMATION_SCHEMA Database.....	7-5
INFORMATION_SCHEMA Tables.....	7-6
INFORMATION_SCHEMA Table Columns	7-9
Using SELECT with INFORMATION_SCHEMA	7-10
INFORMATION_SCHEMA Examples	7-11
Creating Shell Commands with INFORMATION_SCHEMA Tables	7-12
Creating SQL Statements with INFORMATION_SCHEMA Tables	7-13
MySQL-Supported SHOW Statements	7-15
SHOW Statement Examples	7-16
Additional SHOW Statement Examples.....	7-17
DESCRIBE Statement.....	7-18
mysqlshow Client.....	7-19
mysqlshow Examples.....	7-20
Summary.....	7-21
Practice 7-1 Overview: Obtain Metadata by Using INFORMATION_SCHEMA.....	7-22
Practice 7-2 Overview: Obtain Metadata by Using SHOW and DESCRIBE	7-23
Practice 7-3 Overview: Obtain Metadata by Using mysqlshow	7-24
Transactions and Locking.....	8-1
Transactions and Locking.....	8-2
Objectives.....	8-3
Transactions.....	8-4
Transaction Diagram.....	8-5
ACID	8-6
Transaction SQL Control Statements.....	8-7
SQL Control Statements Flow: Example	8-8
AUTOCOMMIT Mode.....	8-9
Implicit Commit	8-10
Transactional Storage Engines.....	8-11
Transaction Isolation Problems.....	8-12
Isolation Levels.....	8-13
Isolation Level Problems	8-14
Setting the Isolation Level	8-15
Global Isolation Level.....	8-16
Transaction Example: Isolation.....	8-17
Locking Concepts	8-19
Explicit Row Locks	8-20
Deadlocks.....	8-21
Transaction Example: Deadlock	8-23
Implicit Locks.....	8-24
Summary.....	8-25
Practice 8-1 Overview: Quiz	8-26
Practice 8-2 Overview: Use Transaction Control Statements	8-27
Practice 8-3 Overview: Further Practice with Transactions and Locking	8-28

InnoDB Storage Engine	9-1
InnoDB Storage Engine.....	9-2
Objectives.....	9-3
InnoDB Storage Engine.....	9-4
InnoDB as Default Storage Engine	9-5
InnoDB Features.....	9-6
Display the Storage Engine Setting.....	9-7
Set the Storage Engine to InnoDB.....	9-9
Convert Existing Tables to InnoDB	9-10
InnoDB System Tablespace	9-12
Multiple Tablespaces	9-13
Multiple Tablespace Directory Structure.....	9-14
Tablespace Configuration.....	9-15
Decrease Tablespace Size.....	9-16
Log Files and Buffers: Diagram	9-17
Multiple Buffer Pools	9-19
Referential Integrity.....	9-20
Multi-Versioning.....	9-22
Locking.....	9-24
Next-Key Locking.....	9-25
Consistent Non-Locking Reads	9-26
Reduce Deadlocks.....	9-27
Foreign Key Locking	9-29
Summary.....	9-30
Practice 9-1 Overview: Quiz	9-31
Practice 9-2 Overview: Set and Confirm InnoDB Settings.....	9-32
Other Storage Engine Information	10-1
Other Storage Engine Information	10-2
Objectives.....	10-3
Storage Engines and MySQL	10-4
Available Storage Engines	10-5
MyISAM Storage Engine	10-6
MyISAM: Feature Chart.....	10-7
MyISAM: Row Storage Formats.....	10-8
MyISAM: Table Compression	10-10
MyISAM: Locking.....	10-11
MyISAM: Locking Priority	10-12
InnoDB Versus MyISAM: Feature Chart.....	10-13
MEMORY Storage Engine.....	10-14
MEMORY: Feature Chart	10-15
MEMORY: Indexing Options.....	10-16
MEMORY: Best Practices	10-17
Quiz	10-19
ARCHIVE Storage Engine.....	10-20
ARCHIVE: Storage Format.....	10-21
ARCHIVE: Retrieval and Archiving	10-22
BLACKHOLE Storage Engine.....	10-23
BLACKHOLE: Master and Slave Process	10-24
BLACKHOLE: Repeater and Filter.....	10-25

NDBCLUSTER Storage Engine.....	10-26
NDBCLUSTER: Process Diagram	10-27
NDBCLUSTER: Primary Advantages.....	10-28
Choosing Appropriate Storage Engines	10-29
Choosing Among InnoDB, MyISAM, and MEMORY	10-30
Using Multiple Storage Engines.....	10-31
Summary.....	10-33
Practice 10-1 Overview: Quiz	10-34
Practice 10-2 Overview: Set and Use Storage Engines.....	10-35
Partitioning	11-1
Partitioning	11-2
Objectives.....	11-3
Partitioning	11-4
Partitioning Analogy	11-5
MySQL-Specific Partitioning.....	11-6
Partitioning Types	11-7
Partitioning Support.....	11-9
Improve Performance with Partitioning.....	11-10
Performance Challenges with Partitioning.....	11-11
Basic Partition Syntax	11-12
RANGE Partitioning	11-13
LIST Partitioning	11-15
HASH Partitioning.....	11-17
KEY Partitioning.....	11-18
Subpartitioning.....	11-19
Obtaining Partition Information	11-21
Obtaining Partition Information: SHOW CREATE TABLE	11-22
Obtaining Partition Information: SHOW TABLE STATUS.....	11-23
Obtaining Partition Information: INFORMATION_SCHEMA.....	11-24
Obtaining Partition Information: EXPLAIN PARTITIONS.....	11-25
Altering a Partition.....	11-26
Redefining Partitioning Type.....	11-27
Dropping Partitions	11-28
Issues of Using DROP PARTITION	11-29
Removing Partitioning	11-30
Performance Effects of Altering a Partition.....	11-31
Quiz	11-32
Storage Engine Support of Partitioning	11-33
Partitioning with InnoDB.....	11-34
Partitioning with MyISAM.....	11-35
Partitioning and Locking.....	11-37
Partitioning Limitations	11-38
Partition Expression Limitations.....	11-39
Summary.....	11-40
Practice 11-1 Overview: Quiz	11-41
Practice 11-2 Overview: Create and Modify a Partitioned Table	11-42
Practice 11-3 Overview: Remove Partitions from a Table.....	11-43
User Management.....	12-1
User Management	12-2

Objectives.....	12-3
Importance of User Management.....	12-4
User Account Verification	12-5
View User Account Settings	12-6
Authentication.....	12-7
Creating a User Account	12-8
Setting the Account Password.....	12-9
Confirming Passwords	12-10
Manipulating User Accounts.....	12-11
Authorization.....	12-12
Determining Appropriate User Privileges.....	12-13
Granting Administrative Privileges	12-14
SHOW PROCESSLIST	12-15
GRANT Statement	12-17
Display GRANT Privileges.....	12-18
User Privilege Restrictions	12-19
Grant Tables.....	12-20
Use of Grant Tables	12-21
Modifying Grant Tables	12-22
Revoking Account Privileges	12-24
Disabling Client Access Control.....	12-25
Setting Account Resource Limits	12-26
Summary.....	12-27
Practice 12-1 Overview: Quiz	12-28
Practice 12-2 Overview: Create, Verify and a User.....	12-29
Practice 12-3 Overview: Set Up a User for world_innodb.....	12-30
Practice 12-4 Overview: Further Practice	12-31
Security.....	13-1
Security	13-2
Objectives.....	13-3
Security Risks.....	13-4
MySQL Installation Security Risks	13-5
Network Security.....	13-6
Password Security	13-7
Operating System Security.....	13-8
File System Security	13-9
Protect Your Data	13-10
Using Secure Connections	13-11
SSL Protocol.....	13-12
Using SSL with the MySQL Server	13-13
Starting the MySQL Server with SSL	13-14
Requiring SSL-Encrypted Connections	13-15
Checking SSL Status	13-16
Advantages and Disadvantages of Using SSL	13-17
Secure Remote Connection to MySQL	13-18
MySQL Security FAQ.....	13-19
Summary.....	13-20
Practice 13-1 Overview: Quiz	13-21
Practice 13-2 Overview: Determine the Status of SSL Connectivity.....	13-22

Practice 13-3 Overview: Enable MySQL for SSL Connections	13-23
Table Maintenance.....	14-1
Table Maintenance	14-2
Objectives.....	14-3
Implementation of Table Maintenance	14-4
SQL for Table Maintenance Operations	14-5
ANALYZE TABLE Statement.....	14-6
CHECK TABLE Statement	14-7
CHECKSUM TABLE Statement.....	14-9
OPTIMIZE TABLE Statement	14-11
REPAIR TABLE Statement.....	14-13
mysqlcheck Client Program	14-15
myisamchk Utility	14-17
Options for mysqlcheck and myisamchk	14-18
InnoDB Table Maintenance	14-20
MyISAM Table Maintenance.....	14-22
MEMORY Table Maintenance	14-24
ARCHIVE Table Maintenance	14-25
Summary.....	14-26
Practice 14-1 Overview: Quiz	14-27
Practice 14-2 Overview: Table Maintenance Using SQL Statements.....	14-28
Practice 14-3 Overview: Table Maintenance Using MySQL Utilities.....	14-29
Exporting and Importing Data	15-1
Exporting and Importing Data	15-2
Objectives.....	15-3
Exporting and Importing Data	15-4
Export Data by Using SELECT with INTO OUTFILE.....	15-5
Using Data File Format Specifiers	15-6
Escape Character Sequences	15-7
Import Data by Using LOAD DATA INFILE.....	15-8
Skipping or Transforming Input Data.....	15-9
Duplicate Records.....	15-10
Summary.....	15-12
Practice 15-1 Overview: Export MySQL Data	15-13
Practice 15-2 Overview: Import Data.....	15-14
Programming Inside MySQL.....	16-1
Programming Inside MySQL.....	16-2
Objectives.....	16-3
Stored Routines	16-4
Uses of Stored Routines.....	16-5
Stored Routine Issues	16-6
Executing Stored Routines	16-7
Stored Procedure: Example.....	16-8
Stored Function: Example	16-9
Examine Stored Routines.....	16-11
Stored Routines and Execution Security	16-13
Quiz	16-14
Triggers.....	16-15
Create Triggers.....	16-16

Trigger Events	16-17
Trigger Error Handling.....	16-18
Examining Triggers	16-19
Dropping Triggers	16-20
Restrictions on Triggers	16-21
Trigger Privileges	16-22
Quiz	16-23
Events	16-24
Schedule	16-26
Event Scheduler and Privileges	16-28
Event Executed with Definer Privileges	16-29
Examining Events	16-30
Dropping Events	16-31
Quiz	16-32
SIGNAL and RESIGNAL	16-33
Summary	16-34
Practice 16-1 Overview: Create Stored Routines	16-35
Practice 16-2 Overview: Review Stored Routines	16-36
Practice 16-3 Overview: Creating Triggers	16-37
Practice 16-4 Overview: Create and Test an Event.....	16-38
Views.....	17-1
Views	17-2
Objectives.....	17-3
Views	17-4
Create Views	17-6
Quiz	17-7
Updatable Views	17-8
Insertable Views	17-9
Quiz	17-10
SQL SECURITY	17-11
DEFINER	17-13
WITH CHECK OPTIONS.....	17-14
Examine Views	17-15
Alter View Definitions	17-16
Drop Views	17-17
Quiz	17-18
Summary	17-19
Practice 17-1 Overview: Create Views	17-20
Practice 17-2 Overview: Updatable Views.....	17-21
Practice 17-3 Overview: View and Modify Views	17-22
MySQL Backup and Recovery	18-1
MySQL Backup and Recovery.....	18-2
Objectives.....	18-3
Backup Basics	18-4
Backups with MySQL.....	18-7
Quiz	18-8
Logical (Textual) Backups	18-9
Physical (Raw or Binary) Backups.....	18-11
Snapshot-Based Backup.....	18-12

Replication-Based Backup	18-13
Quiz	18-14
Binary Logging and Incremental Backups	18-15
Backup Tools: Overview	18-16
MySQL Enterprise Backup	18-18
mysqlbackup.....	18-20
Restoring a Backup with mysqlbackup.....	18-21
mysqlbackup Single-File Backups	18-22
Restoring mysqlbackup Single-File Backups	18-23
Quiz	18-24
Raw InnoDB Backups	18-25
Raw MyISAM Backups.....	18-26
mysqlhotcopy.....	18-27
Raw Binary Portability	18-28
mysqldump.....	18-29
Consistency with mysqldump.....	18-30
mysqldump Output Format Options	18-31
Restoring mysqldump Backups	18-33
Quiz	18-35
Backing Up Log and Status Files	18-36
Replication as an Aid to Backup	18-37
Comparing Backup Methods	18-38
Backup Strategy	18-39
Processing Binary Log Contents.....	18-40
Quiz	18-42
Summary.....	18-43
Practice 18-1 Overview: Quiz	18-44
Practice 18-2 Overview: MySQL Enterprise Backup	18-45
Practice 18-3 Overview: mysqldump.....	18-46
Practice 18-4 Overview: A Complete Recovery	18-47
Introduction to Replication.....	19-1
Introduction to Replication.....	19-2
Objectives.....	19-3
MySQL Replication	19-4
Types of Replication.....	19-6
MySQL Replication	19-8
Replication Threads and Files	19-9
Replication Threads	19-10
Replication Files	19-11
Setting Up MySQL Replication	19-12
CHANGE MASTER TO	19-13
Monitor MySQL Replication.....	19-14
Replication Slave I/O Thread States	19-15
Replication Slave SQL Thread States	19-17
Troubleshooting MySQL Replication.....	19-18
Summary.....	19-20
Practice 19-1 Overview: Quiz	19-21
Practice 19-2 Overview: Binary Log	19-22
Practice 19-3 Overview: Setup Replication.....	19-23

Practice 19-4 Overview: Backing up a Slave	19-24
Introduction to Performance Tuning	20-1
Introduction to Performance Tuning	20-2
Objectives.....	20-3
General Table Optimizations	20-4
EXPLAIN	20-6
PROCEDURE ANALYSE	20-7
Top Status Variables.....	20-8
Top Server System Variables	20-10
Summary.....	20-12
Practice 20-1 Overview: Quiz	20-13
Practice 20-2 Overview: EXPLAIN.....	20-14
Practice 20-3 Overview: PROCEDURE ANALYSE.....	20-15
Conclusion.....	21-1
Conclusion.....	21-2
Course Goals.....	21-3
MySQL Curriculum Path.....	21-5
MySQL Resources	21-6
We Need Your Evaluation!	21-7
Thank You.....	21-8
Q&A Session	21-9
Appendix: Query Optimization Using EXPLAIN Output Columns	22-1
Appendix: Query Optimization Using EXPLAIN Output Columns.....	22-2
The EXPLAIN Statement.....	22-3
EXPLAIN Output Columns for Joins.....	22-5
EXPLAIN Output Columns for Table Processing	22-7
EXPLAIN Output Columns for Joins.....	22-8
Appendix: Practice Solutions Scripts	23-1
Appendix: Practice Solutions Scripts.....	23-2
Lesson 1: Introduction.....	23-3
Lesson 2: MySQL Architecture	23-3
Lesson 3: System Administration.....	23-4
Lesson 4: Server Configuration	23-6
Lesson 5: Clients and Tool.....	23-9
Lesson 6: Data Types	23-10
Lesson 7: Obtain Metadata.....	23-11
Lesson 8: Transactions and Locking.....	23-13
Lesson 9: InnoDB Storage Engine.....	23-16
Lesson 10: Other Storage Engine Information.....	23-17
Lesson 11: Partitioning.....	23-19
Lesson 12: User Management.....	23-21
Lesson 13: Security.....	23-25
Lesson 14: Table Maintenance.....	23-27
Lesson 15: Export and Import.....	23-28
Lesson 16: Programming Inside MySQL	23-29
Lesson 17: Views.....	23-32
Lesson 18: Backup and Recovery	23-34
Lesson 19: Introduction to Replication	23-40

Lesson 20: Introduction to Performance Tuning 23-45

Preface

Profile

Before you begin this course, you should have the following:

- Some experience with databases and SQL and a desire to administer MySQL
- A desire to attain MySQL DBA certification

Prerequisites

You should have one of the following prerequisites:

- Completion of the *MySQL for Beginners* (D61918GC10) course
- Some experience with relational databases and SQL

How This Course Is Organized

MySQL for Database Administrators is an instructor-led course featuring lecture, demonstrations, quizzes, and hands-on practice exercises. The practice sessions reinforce the concepts and skills introduced.

Related Publications

Additional Publications

- System release bulletins
- Installation and user's guides
- *Read-me* files
- International Oracle User's Group (IOUG) articles
- *Oracle Magazine*

Typographic Conventions

Typographic Conventions in Text

The following typographical conventions are used throughout this training guide:

- Computer input and output is printed in this format: `Computer input or output`. This is also used for the names of executable programs and file locations.
- Keywords from the SQL language appear in this format: `SQL KEYWORD`. SQL keywords are not case-sensitive and may be written in any letter case, but the training guide uses uppercase.

When commands are shown that are meant to be executed from within a particular program, the prompt shown preceding the command indicates which command to use. For example, `sys>` indicates a command that you execute from your shell, and `mysql>` indicates a statement that you execute from the `mysql` client program:

```
shell> mysql -u root -h 127.0.0.1
mysql> SELECT * FROM world.City;
```

The “`sys`” is your command interpreter. On Linux, this is typically a program such as `sh`, `csh`, or `bash`. On Windows, the equivalent program is `command.com` or `cmd.exe`, typically run in a console window. When you enter a command or statement shown in an example, do not type the prompt shown in the example.

Database, table, and column names must often be substituted into statements. To indicate that such substitution is necessary, this manual uses `db_name`, `tbl_name`, and `col_name`. For example, you might see a statement like this:

```
mysql> SELECT col_name FROM db_name.tbl_name;
```

This means that if you were to enter a similar statement, you would supply your own database, table, and column names for the placeholders `db_name`, `tbl_name`, and `col_name`., perhaps like this:

```
mysql> SELECT author_name FROM biblio_db.author_list;
```

In syntax descriptions, square brackets (`[` and `]`) indicate optional words or clauses. For example, in the following statement, `IF EXISTS` is optional:

```
DROP TABLE [IF EXISTS] tbl_name;
```

When a syntax element consists of a number of alternatives, the alternatives are separated by vertical bars (pipe, `|`).

When one member from a set of choices may be chosen, the alternatives are listed within square brackets (`[` and `]`):

```
TRIM([ [BOTH | LEADING | TRAILING] [remstr] FROM] str)
```

When one member from a set of choices must be chosen, the alternatives are listed within braces (`{` and `}`):

```
{DESCRIBE | DESC} tbl_name [col_name | wild]
```

Typographic Conventions (continued)

Typographic Conventions in Text (continued)

An ellipsis (. . .) indicates the omission of a section of a statement, typically to provide a shorter version of more complex syntax. For example, `INSERT . . . SELECT` is shorthand for the form of `INSERT` statement that is followed by a `SELECT` statement.

An ellipsis can also indicate that the preceding syntax element of a statement may be repeated. In the following example, multiple `reset_option` values may be given, with each of those after the first preceded by commas:

```
RESET reset_option[, reset_option] . . .
```