MySQL for Beginners

Duration: 4 Days

What you will learn

The MySQL for Beginners course helps you learn about the world's most popular open source database. Expert Oracle University instructors will teach you how to use the MySQL Server and tools, while helping you develop deeper knowledge of using relational databases.

Learn To:

- Explain the relational database model.
- Describe the features and benefits of MySQL.
- Install and configure the MySQL server and clients.
- Design efficient databases.
- Use Structured Query Language (SQL) to build your database and query data.
- Employ appropriate MySQL tools.

Benefits to You

This course will teach you everything you need to know to start using the incredibly popular MySQL database in your Web, Cloud and embedded applications. In learning about MySQL, you will develop an understanding of relational databases and how to design a robust and efficient database. You will harness that power by learning SQL and use it to build databases, populate them with data and query that data through extensive hands-on practices.

Manage Your MySQL Database

This course also introduces you to more advanced tools and techniques to help you manage your MySQL database and data. At the end of the course, you will be confident in your abilities to use the MySQL database and put your new skills to work.

Audience

Administrator
Database Administrators
Database Designers
Developer

Related Training

Required Prerequisites

Basic computer literacy is required
**Suggested Prerequisites**

Knowledge of database concepts.

Previous experience with any command-line program.

**Course Objectives**

Explain MySQL storage engines

Explain database transactions

Obtain database metadata

Describe MySQL GUI tools

Monitor database performance

Perform database backup and recovery

Export and import database data

Describe the features and benefits of MySQL

Explain the basics of relational databases

Design an effective database

Build a database and tables by using SQL Modify or delete database entities

Query data with the SELECT command

Join data from multiple tables

Perform nested subqueries

Use built-in MySQL functions

**Course Topics**

**Introduction to MySQL**

Course Goals

Course Lesson Map

MySQL Overview

MySQL Database Server Editions

MySQL Products

MySQL Services and Support

MySQL Resources

Example Databases
Database and Table Maintenance
Deleting databases and tables
Creating a new table using an existing table
Confirming the creation of a new table
Copying an existing table structure
Creating a temporary table
Adding, removing and modifying table columns
Adding, removing and modifying indexes and constraints

Table Data Manipulation
Manipulating Table Row Data
The INSERT Statement
The REPLACE Statement
The UPDATE Statement
The DELETE Statement

Functions
Functions in MySQL Expressions
Using Functions
String Functions
Temporal Functions
Numeric Functions
Control Flow Functions
Aggregate Functions
Spaces in Function Names

Exporting and Importing Data
Exporting with a Query
Exporting with a MySQL Utility
Importing from a Data File
Importing with a MySQL Utility

Joining Tables
Combining Multiple Tables
Joining Tables with SELECT
Comma-Separated Joins
Inner Joins
Outer Joins
Table Name Aliases

Table Subqueries
Advantages of Using a Subquery
Placement of Subqueries
Subquery Categories
Subquery Result Table Types
Subquery Type/Placement
Finding Mismatches
Modifying Tables using Subqueries
Converting Joins to Subqueries

MySQL Graphical User Interface Tools
MySQL Workbench