# MySQL for Beginners Training

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Duration: **4 Day**

## Overview

**Here is your chance to learn how this powerful relational database management system can make your life easier and more fun! This class covers all the basics and will get you on your way, with a solid foundation. This instructor led, hands-on class covers the fundamentals of SQL and relational databases, using MySQL[tm] as a teaching tool.**

**Learn To:**

- Install the MySQL server
- Describe the features and benefits of MySQL
- Describe the basics of relational databases
- Install the MySQL server
- Describe the features and benefits of MySQL
- Describe the basics of relational databases

**Target Audience**

- Database Administrators
- Database Designers
- Administrator

## Prerequisites

Required Prerequisites:

- Basic computer literacy is required

Suggested Prerequisites:

- Previous experience with any command-line program
- Knowledge of database concepts

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## What You Will Learn

- Understand the features and benefits of MySQL
- Install and start the MySQL server
- Understand the basics of relational databases
- Understand the SQL and MySQL languages
- Understand Data/Column types with regard to efficient database design
- View a database design structure and content
- Create a database design using an efficient structure
- Extract basic database information using the SELECT command
- Troubleshoot syntax and understand typical warnings and errors
- Delete or modify a database, and table row data
- Group query data with aggregation
- Connect data from multiple table rows using JOIN
- Perform nested sub-queries
- Use simple functions (String, Date, Numerical)
- Describe MySQL connectors, their major features and differences
- Understand MySQL storage engines, transactions and features of the common engines

## Outline

### Introduction

- MySQL Product
- MySQL Services and Support
- MySQL Resources
- Example Databases

### MySQL Server and Client

- The client/server model overview
- Communication protocols
- Connectors and MySQL
- The LAMP Stack
- Installation of the MySQL server
- MySQL Server and Client Startup

### Database Basics

- Basics of Relational Databases
- SQL Language and MySQL

### Database Design

- Database Modeling
- Keys
- Normalization

### Table Data Types

- Data Types

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- Numeric Data Types
- Temporal Data Types
- Character String Data Types
- The Meaning of Null

**Database and Table Creation**

- Database Structure Creation
- Database Creation
- Table Creation

**Basic Queries**

- The SELECT Statement
- MySQL Workbench for SQL Development
- Troubleshooting

**Database and Table Maintenance**

- Deleting an Entire Database
- Maintaining Tables
- Maintaining Columns
- Indexes and Constraints

**Table Data Manipulation**

- Delete/Modify Table Row Data
- The INSERT Statement
- The REPLACE Statement
- The UPDATE Statement
- The DELETE Statement

**Functions**

- Simple Functions
- Grouping with Functions

**Joining Tables**

- Combining Multiple Tables
- Inner Joins
- Outer Joins

**Table Queries**

- What is a Subquery
- Categories of Subqueries
- Subquery Types
- Placing Subqueries
- Other Subquery Uses
- Converting Subqueries to Joins

**Exporting and Importing Data**

- Exporting Data

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- Importing Data

**MySQL GUIs**

- MySQL Enterprise Monitor
- MySQL Workbench

**Supplemental Information**

- Creating Views
- Transaction
- Storage Engines
- Retrieving Metadata
- Performance Schema
- MySQL Enterprise Backup

**Conclusion**

- Course Review
- MySQL Training and Certification
- Course Evaluation
- Thank You!
- QA Session