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