



MySQL for Beginners

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.

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

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- Query data with the SELECT command
- Join data from multiple tables
- Perform nested subqueries
- Use built-in MySQL functions

Topics

- ❖ Introduction
 - Features and Benefits of MySQL
 - MySQL Products and Service
 - Community vs. Enterprise
 - MySQL Certification Program
 - MySQL Certification Program
 - MySQL Website
 - MySQL Architecture
 - Install and Start MySQL
- ❖ Database Basics
 - SQL Language and MySQL
 - Database Design
 - Database Modeling
 - Keys
 - Normalization
 - Data Types
 - What is NULL?
 - Viewing Database Structure
- ❖ Database Creation
 - Create a New Database Structure



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- Creating a Database
- Creating a Table
- ❖ Basic Queries
 - The SELECT Command
 - MySQL Query Browser
 - Troubleshooting
- ❖ Database Maintenance
 - Delete an Entire Database
 - Maintaining Tables
 - Maintaining Columns
 - Indexes and Constraints
 - Data Manipulation
- ❖ Delete/Modify Table row Data
 - The INSERT Command
 - The REPLACE Command
 - The UPDATE Statement
 - The DELETE Command
- ❖ Functions
 - Simple Functions
 - Grouping with Functions
- ❖ Joining Tables
 - Combining Multiple Tables
 - Inner Joins
 - Outer Joins
- ❖ Exporting/Importing Data
 - Exporting Data
 - Importing Data

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- ❖ Sub queries
 - What is a Sub query?
 - Categories of Sub queries
 - Sub query Types
 - Placing Sub queries
 - Other Sub query Uses
 - Other Sub query Uses
- ❖ Supplementary Information
 - Creating VIEWS
 - Transactions
 - Storage Engines
 - Retrieving Metadata
- ❖ Conclusion
 - Course Review
 - Training and Certification Website
 - Course Evaluation
 - Thank You!
 - QA Session