

Course Outline of MySQL Fundamentals Ed 2

- Introduction to MySQL
 - Course Goals
 - Course Lesson Map
 - Classroom Environment
 - MySQL Overview
 - MySQL Community Resources
 - How an instance of MySQL Cloud Service differs from having an on-premises instance
 - MySQL Courses and Certification
- MySQL Server and Client
 - MySQL Client/Server Model
 - MySQL Connectors
 - Installation of the MySQL server
 - Starting and stopping the MySQL server
 - Using the mysql client
 - MySQL Workbench
- Querying Table Data
 - The SELECT Statement
 - Query Data From An Application
 - Troubleshooting Problems
- Data Types
 - Data Types as Part of Database Design
 - Numeric Data Types
 - Temporal Data Type
 - String Data Types
 - Character Set and Collation Support
 - Data Type Considerations
 - The Meaning Of NULL
- Functions
 - Functions in MySQL Expressions
 - Using Functions
 - String Functions
 - Date And Time Functions
 - Numeric Functions
 - Aggregate Functions
 - Spaces in Function Names
 - RANK Window Functions
- Joins and Unions
 - Querying Multiple Tables
 - Joining Tables with SELECT

- Inner Joins
 - Outer Joins
 - Table Name Aliases
 - Combining Multiple Queries with UNION
- Subqueries
 - Nesting Queries
 - Writing Simple Subqueries
 - Writing Complex Subqueries
- Creating Databases and Tables
 - Creating a Database
 - Creating a Table
 - Showing How a Table Was Created
 - Column Options
 - Table Options
 - Copying an Existing Table Structure
 - Confirming the Creation of a New Table
 - Copying an Existing Table Structure
 - Creating a Temporary Table
 - Indexes, Keys, and Constraints
- Modifying Databases and Tables
 - Deleting Databases and Tables
 - Adding, Removing and Modifying Table Columns
 - Adding, Removing and Modifying Indexes and Constraints
- Modifying Table Data
 - Manipulating Data
 - Inserting Records
 - Replacing Existing Records
 - Updating Existing Records
 - Deleting Records
 - Exporting and Importing A Script
 - Multistatement Transactions
 - Modifying Data From An Application
- Securing Your Database
 - Layers of Security
 - Creating Users
 - Creating Roles
 - Assigning Privileges to Users And/Or Roles
 - Creating Views to Control Access
- Backing Up Your Database
 - Importance Of Backups
 - Creating a Backup
 - Options for Backup
 - Restoring a Backup
- JSON

- JSON Use Cases
- Retrieving Data From JSON Columns
- Creating a JSON Column
- Inserting Data Into a JSON Column
- Updating a JSON Column
- Conclusion
 - Course Goals
 - MySQL Curriculum Path
 - MySQL Resources
 - Evaluation
 - Final Q&A