

MYSQL COURSE CONTENT

1. Introduction

- Course Outline and Intro to MySQL and Database
- MySQL Architecture and Installation of MySQL
- Installation Demo - Part 1
- Installation Demo - Part 2

2. Database Design

- Database Design
- MySQL Workbench Download
- Database Table and Constraints
- Database Designing and Normalization - Part 1
- Database Designing and Normalization - Part 2
- Storage and Data Types
- Data Types Demo
- ACID and Transactions
- Locks, Deadlocks, Isolation Levels and Logging
- Isolation Levels and Locking Demo
- Locking Mechanism Demo and MySQL ACID Support

3. Administration

- Responsibilities of a Database Administrator
- Creating a User and Limiting Access to a Database; Basic Maintenance Function
- Protecting your Database; How to Perform Database Backup
- Performance Monitoring

4. Indexing For Performance

- Course Review
- InnoDB Indexing and Clustered vs. Unclustered Index
- Query and Where Clause
- Impact of Indexing on Database Performance
- Performance Optimization

5. SQL For Developers

- Char vs. Varchar Data Types; Create, Alter and Drop Keywords; Views and Triggers
- Data Definition Language; How to Create Database Objects
- SQL Select Statements
- SQL Select Statements Demo
- Joins
- Combining Related Table Using Joins
- Insert, Update and Delete Commands

6. Insert, Update, and Delete Commands Demo

7. Query Analysis And Optimization

- Query Optimization
- Query Optimization Demo

8. Data Replication

- Database Replication

- Setting Up Replication in MySQL
- Data Encryption
- Column-Level Database Encryption Demo



- High Availability

9. Conclusion

- Closing
- MySQL Quiz

