SQL School
Quality Training Assured

MySQL DBA Training

Thank you for contacting **SQL School Training Institute**. We assure you 100% practical, step-by-step training on MySQL DBA, paired with real-time project implementations, assignments, and use-case scenarios to enhance your learning and job readiness.

Whom we are ?

Over 19 Years of strong commitment in training excellence, we assure you 100% practical, step by step learning process paired with Assignments, Use Case Scenarios and Realtime Project Implementations for your Resume and Job Work. We are sure, you will have a wonderful journey with us.

Details of our MySQL DBA Training

What is MySQL?
MySQL is an open-source relational database management system (RDBMS) widely used for managing and administering data. It is versatile, robust, and easy to use, making it a preferred choice for many applications.

What is MySQL DBA Job Role?
A MySQL Database Administrator (DBA) manages, maintains, and optimizes MySQL database systems. Key responsibilities include:
1. Database Administration
2. Performance Tuning
3. Backup and Recovery
4. Database Security
5. Upgrades and Migrations
6. Database Design
7. Monitoring and Maintenance
8. Cloud Migrations and Management

What About the Lab? What Are the System Requirements?
Hardware Requirements:
- RAM: 8 GB or higher
- Storage: 10 GB or more of free disk space

Software Requirements:
- Linux (Ubuntu, Red Hat, CentOS, etc.)
- Windows (10, 8, 7, Server 2019, etc.)
- macOS (10.12 or later)

What about Placement Assistance?
As part of this MySQL DBA course, we provide resume guidance, FAQs with answers, and job-specific project training. SQL School also offers placement assistance to ensure a smooth career transition..

How do I join the course?
Reach us for free demo on +91 9666440801 or visit us on www.sqlschool.com/schedules

Who can join this course?
The MySQLDBA course is suitable for various professionals and individuals who want to learn about MySQLDBA.

Detailed Course Curriculum

Module 1: Database Design and Data Types

Chapter 1: Introduction to Database Modeling
- Overview of database modelling.
- Steps to create a database model.

Chapter 2: Primary and Foreign Keys for Referential Integrity
- Understanding primary keys.
- Configuring foreign keys.

Chapter 3: Data Normalization and Design Principles
- Benefits of normalization.
- Different levels of normalization.

Chapter 4: Data Type Considerations (Numeric, Temporal, String, etc.)
- Choosing correct data types.
- Character set and collation.

Chapter 5: Hands-On: Design and Evaluate a Database
- Real-world database evaluation.

Module 2: Database and Table Management

Chapter 6: Creating Databases and Tables
- Using CREATE commands effectively.
- Exploring database options.

Chapter 7: Indexes, Keys, and Constraints
- Different types of indexes.
- Understanding constraints in MySQL.

Chapter 8: Table Modifications (Add/Remove Columns)
- ALTER TABLE usage.
- Dynamic table updates.

Chapter 9: Hands-On: Create, Delete, and Alter Tables

- **Practice real-time table modifications.**

Module 3: Installation and Configuration

Chapter 10: Installing MySQL Server (Linux, Windows)
- **Steps for installation on Linux.**
- **Installation on Windows systems.**

Chapter 11: MySQL Client/Server Model
- **Architecture of MySQL server.**
- **Client tools and interactions.**

Chapter 12: Configuration Files and Directories
- **Editing and managing configuration files.**
- **Directory structures overview.**

Chapter 13: Hands-On: Install and Configure MySQL
- **Setup and manage installations.**

Module 4: Querying and Data Manipulation

Chapter 14: SELECT Statements and Clauses
- **Basic SELECT usage.**
- **WHERE, GROUP BY, and ORDER BY clauses.**

Chapter 15: Data Export/Import and Troubleshooting
- **Exporting data using mysqldump.**
- **Troubleshooting common data issues.**

Chapter 16: Multistatement Transactions
- **Using transactions in MySQL.**
- **COMMIT and ROLLBACK commands.**

Chapter 17: Hands-On: Query, Insert, Update, and Delete Data
- **Execute real-world data manipulations.**

Module 5: Joining Tables and Functions

Chapter 18: INNER and OUTER Joins
- **Understanding JOINs.**
- **Practical examples of INNER and OUTER joins.**

Chapter 19: Aggregate and Built-in Functions
- **COUNT, SUM, and AVG functions.**
- **Using MySQL date functions.**

Chapter 20: Hands-On: Use Joins and Functions in Queries
- **Real-world usage of JOINs and functions.**

Module 6: MySQL Architecture

Chapter 21: Memory and Data Processing
- **How MySQL processes data.**
- **Configuring memory for efficiency.**

Chapter 22: InnoDB Tablespaces
- **Overview of tablespaces.**
- **Configuring InnoDB.**

Chapter 23: Hands-On: Configure Tablespaces and Buffers
- **Optimize tablespace and buffer usage.**

Module 7: Security

Chapter 24: Addressing Common Security Risks
- **Understanding vulnerabilities.**
- **Securing databases effectively.**

Chapter 25: SSL and SSH for Secure Connections
- **Implementing secure connections.**
- **Troubleshooting SSL issues.**

Chapter 26: Hands-On: Configure Secure MySQL Connections
- **Practical secure connection setups.**

Module 8: User Management

Chapter 27: User Creation and Permission Management
- o Adding and managing users.
- Assigning roles and permissions.

Chapter 28: Authentication Plug-ins
- Using MySQL authentication plug-ins.
- Practical usage scenarios.

Chapter 29: Hands-On: Create and Manage User Accounts
- Live user account management.

Module 9: Backup and Recovery

Chapter 30: Backup Strategies and Tools (mysqldump, mysqlpump)
- Logical backups with mysqldump.
- Using mysqlpump for advanced backups.

Chapter 31: Logical and Raw Backups
- Offline vs online backups.
- Using raw backup techniques.

Chapter 32: Hands-On: Perform and Restore Backups
- Backup and restoration simulations.

Module 10: Performance Tuning

Chapter 33: Database and Query Tuning
- EXPLAIN and performance analysis.
- Optimizing slow queries.

Chapter 34: Server Parameter Adjustments

- **Key server parameters for tuning.**
- **Managing cache and memory settings.**

Chapter 35: Hands-On: Optimize Queries and Configurations

- **Practical optimization techniques.**
- **Realtime Project Environment and Issues, Solutions**

contact@sqlschool.com
New batch Schedules: www.sqlschool.com/Register
Call/WhatsApp: +91 9666 44 0801, +91 9666 64 0801

Trainer: Mr. Srikanth
14+ Years of Expertise

This MySQL DBA Course is 100% Practical, Step by Step. Reach us now!