Training
NEXT EXIT ↗

5 Days Course on
MySQL for Developers

Two Sigma Technologies
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About the Course

- Do you want to learn how to develop database applications on MySQL?
- Do you need to use MySQL Stored Procedures, Triggers, Views, and Information Schema?
- Do you want to create complex reports, use complex queries to retrieve data and aggregate results?
- Do you want to transfer your data from one server to another?

Then MySQL for Developers is for you! With an Authorized MySQL instructor and hands-on exercises you will learn how to develop applications with all the new features of MySQL 5.0. This instructor-led course is designed for students planning on developing applications that make use of MySQL 5.0. This course covers essential SQL statements for data design, querying, and programming. In addition, it will prepare students for the MySQL Developer certification.

Prerequisites

Having attended the MySQL 5.0 for Beginners course or some experience with relational databases and SQL.

Course Settings

Venue/Date	Refer to Training Calendar
Timings	0900-1700
Inclusive	Certificates and notes
Course Fee	Contact Us at sales@2-sigma.com
Exam Fee	Contact Us at sales@2-sigma.com
Audience	IT Officer, Web Developer and Programmer
Level	Preparation towards Certification

MySQL Developers – Schedule

Day 1	
9.00am – 10.00am	**Introduction** • MySQL Overview, Products and Services • MySQL Enterprise Services • Supported Operating Services • MySQL Certification Program • Training Curriculum Paths • MySQL Website • Installing MySQL and the World Database
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	**MySQL Client/Server Concepts** • MySQL General Architecture • How MySQL Uses Disk Space • How MySQL Uses Memory **MySQL Clients** • Invoking Client Programs • Using Option Files • The MySQL Client • MySQL Query Browser

	• MySQL Connectors • Third-Party APIs
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	**Querying for Table Data** • The SELECT Statement • Aggregating Query Results • Using UNION **Handling Errors and Warnings** • SQL Modes • Handling Missing or Invalid Data Values • Interpreting Error Messages **SQL Expressions** • SQL Comparisons • Functions in SQL Expressions • Comments in SQL Statements
Day 2	
9.00am – 10.00am	**Data Types** • Data Type Overview • Numeric Data Types • Character String Data Types • Binary String Data Types • Temporal Data Types • NULLs
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	**Obtaining Metadata** • Metadata Access Methods • The INFORMATION_SCHEMA Database/Schema • Using SHOW and DESCRIBE • The mysqlshow Command **Databases** • Database Properties • Good Design Practices • Identifiers • Creating Databases • Altering Databases • Dropping Databases
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	**Tables** • Creating Tables • Table Properties • Column Options • Creating Tables Based on Existing Tables • Altering Tables • Dropping Tables • Foreign Keys
Day 3	
9.00am – 10.00am	**Manipulating Table Data** • The INSERT Statement • The DELETE Statement • The UPDATE Statement • The REPLACE Statement • INSERT with ON DUPLICATE KEY UPDATE

	• The TRUNCATE TABLE Statement
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	**Transactions** • What is a Transaction? • Transaction Commands • Isolation Levels • Locking **Joins** • What is a Join? • Joining Tables in SQL • Basic Join Syntax • Inner Joins • Outer Joins • Other Types of Joins • Joins in UPDATE and DELETE statements
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	**Subqueries** • Types of Subqueries • Table Subquery Operators • Correlated and Non-Correlated Subqueries • Converting Subqueries to Joins **Views** • What Are Views? • Creating Views • Updatable Views • Managing Views • Obtaining View Metadata
Day 4	
9.00am – 10.00am	**Prepared Statements** • Why Use Prepared Statements? • Using Prepared Statements from the mysql Client • Preparing a Statement • Executing a Prepared Statement • Deallocating a Prepared Statement
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	**Exporting and Importing Data** • Exporting and Importing Data • Exporting and Importing Data Using SQL • Exporting and Importing Data Using MySQL Client Programs • Import Data with the SOURCE Command
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	**Stored Routines** • What is a Stored Routine? • Creating, Executing and Deleting Stored Routines • Compound Statements • Assign Variables • Parameter Declarations • Flow Control Statements • Declare and Use Handlers • Cursors
Day 5	
9.00am – 10.00am	**Triggers**

	• What are Triggers? • Delete Triggers • Restrictions on Triggers
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	**Storage Engines** • SQL Parser and Storage Engine Tiers • Storage Engines and MySQL • The MyISAM Storage Engine • The InnoDB Storage Engine • The MEMORY Storage Engine • Other Storage Engines
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	**Optimization** • Overview of Optimization Principles • Using Indexes for Optimization • Using EXPLAIN to Analyze Queries • Query Rewriting Techniques • Optimizing Queries by Limiting Output • Using Summary Tables • Optimizing Updates • Choosing Appropriate Storage Engines

More Information

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To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602,
we will contact you for further action.