



MySQL® and PHP — Developing Dynamic Web Applications

Duration: 4 Days

Method: Instructor-Led

Course Description

MySQL® & PHP are the foundation for developing powerful web applications & dynamic websites that go beyond basic HTML. Through this course, you'll learn how to develop applications in PHP and use MySQL® efficiently for these applications. Also, combine these applications with time-proven database management techniques to create an efficient, solid and secure user-experience. Participants will be able to apply their knowledge to the creation of dynamic Web applications such as content management, user registration, and e-commerce.

Target Audience

This course is designed for:

- Database Designers
- Database Administrators
- Developers who use PHP and MySQL® to build and maintain their websites
- Developers who want to learn how PHP and MySQL® can be used to rapidly prototype and deploy dynamic websites

Prerequisites

Before attending this course, participants should have the following:

- Some experience with relational databases
- Understand how HTML files are assembled
- Understand fundamental PHP syntax
- Have some programming experience (preferably PHP)

Suggested Prerequisites

- Have some knowledge of Object-Oriented Programming



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Course Objectives

Upon successful completion of this course, participants will be able to:

- How to develop applications in PHP
- Use MySQL® efficiently for those applications. Through a hands-on approach, this instructor-led course will help you
- Improve your PHP skills and combine them with time-proven database management techniques to create best-of-breed
- Web applications that are efficient, solid and secure
- Describe the LAMP architecture
- Use the basic components of PHP to build a foundation for more complex web applications
- Understand the basic components of MySQL®
- Use SQL query commands to retrieve data from the MYSQL® database
- Change table data using the SQL Data Manipulation Language (DML) commands
- Retrieve data from multiple MySQL® tables using Joins
- Create web based forms that interact with the end user and the data within MySQL®
- Use session handling to authenticate and monitor user identities
- Describe the purpose of template systems

Course Content

Lesson 1: Intro to PHP

- MySQL® Overview
- MySQL® Products
- MySQL® Services
- MySQL® Enterprise Services
- Supported Operating Systems
- MySQL® Certification Program
- Training Curriculum Paths
- MySQL® Website

Lesson 2: LAMP (Linux®, Apache, MySQL® & PHP)

- LAMP Architecture
- Apache Server
- The MySQL® Database
- PHP
- Installing XAMPP



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Lesson 3: PHP Foundations

- Delimit PHP code within HTML
- Comment PHP code
- Construct Feedback
- Use the Data Types available in PHP
- Use Key Control Statements
- Develop Reusable Code with user defined functions

Lesson 4: MySQL® Foundations

- General Architecture
- MySQL® client
- Tables
- Storage Engines
- SELECT statement
- Aggregate queries

Lesson 5: PHP Connecting to MySQL®

- Establish and close a connection to the MySQL® server from PHP
- Retrieve and display data from the MySQL® server

Lesson 6: Linking Between Tables

- Define and create an HTML link
- Create the ability to pass information between web pages
- Link dynamic pages to other pages

Lesson 7: SQL DML

- Use the INSERT statement
- Use the UPDATE statement
- Use the REPLACE statement
- Use the DELETE statement

Lesson 8: Forms

- Create and design HTML web forms
- Update data in a MySQL® database using a web form
- Delete MySQL® data with PHP
- Insert new records in MySQL® using web forms

Lesson 9: Joins

- Describe the concept of a Join
- Connect Data from Multiple Tables using Joins
- Resolve Name Clashes when Joining Tables

Lesson 10: Session Handling

- Describe Session Handling
- Use Session Handling Tasks
- Database Authentication

Lesson 11: Common Techniques

- Template Systems
- Smarty Template System

Lesson 12: Conclusion

- Course Overview
- Training and Certification Website
- Course Evaluation
- Thank You!
- Q&A Session