MySQL and PHP - Developing Dynamic Web Applications

Duration: 4 Days

What you will learn
In the MySQL™ and PHP - Developing Dynamic Web Applications you will learn how to develop applications in PHP and how to 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.

Students who can benefit from this course:

Developers who use PHP and MySQL to build and maintain their websites
Developers who want to learn how PHP and MySQL can be used for the rapid prototyping and deployment of dynamic websites

Prerequisites

*Required Prerequisites*
Have some programming experience (preferably PHP)

Have some understanding and experience of Object-Oriented Pr

Some experience with relational databases

Understand fundamental PHP syntax

Understand how HTML files are assembled

Course Objectives
Design web-based applications
Design schemas based on MySQL
Use include files to make code easier to maintain
Use PHP 5 and takes advantage of its advanced features
Build applications following a precise flow
Authenticate users in a secure way against a database
Handle errors in your PHP applications efficiently and gracefully
Writes composite queries using JOINs and subqueries
Use indexing efficiently in order to manipulate large amounts of data efficiently
Uses joins to extract data from multiple tables
Uses GROUP BY clauses and aggregate functions
Write applications whose components can be scaled to meet increased demand
Build a complete application that includes authentication and session management
Understand how PHP, MySQL and the Apache web server work together to deliver dynamic web content
Introduction
Structure of MySQL AB
MySQL Products and Services
MySQL Partners
Supported Operating Services
MySQL Certification Program
Training Curriculum Paths
MySQL Website

Verify Installation
LAMP Architecture
Install/Verify Apache Installation
Install/Verify MySQL Installation
Install/Verify PHP Installation
Putting it All Together

PHP Foundations
Delimit PHP Code Within HTML
Comment PHP Code
Construct PHP that interacts with end users
Data Types in PHP
Key Control Systems
Use Defined Functions

MySQL Foundations
General Architecture
SQL Parser and Storage Engine Tiers
MySQL Client
MySQL Query Browser

Manage Databases
Database Properties
Database Design Practices
MySQL Identifiers
Create Databases
Alter Databases
Drop Databases

Manage Tables
Table Properties
MySQL Data Types
Create Table
Alter Table
Empty Table
Remove Table
Indexes
Foreign Keys

SQL SELECT Commands
SELECT Statements
Aggregating Query Results

SQL Expressions
Functions in SQL Expressions

SQL DML Commands
INSERT Statement
DELETE Statement
UPDATE Statement
REPLACE Statement

SQL Joins
What is a Join
Inner Joins
Outer Joins
Using Qualifiers and Aliases
Multiple Table UPDATE and DELETE Statements

MySQL Database Driven Web Based Forms
Connecting to MySQL
Retrieving Data
Inserting Data
Updating Existing Data
Deleting Data
MySQL Metadata
MySQL Error Information

Session Handling
What is Session Handling
Session Handling Tasks
PHP Session Handling with MySQL

Object Oriented Programming
Benefits of OOP
Working with Objects
Exception Handling

Securing PHP and MySQL
PHP Configuration Parameters
Data Encryption
Securing the MySQL Server
Privileges

Conclusion
Course Overview
MySQL System Overview
Training and Certification Website