

MySQL and PHP - Developing Dynamic Web Applications

Duration: 4 Days

What you will learn

In the MySQL[tm] 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

Course Topics

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

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

Authentication

HTTP Authentication

PHP Authentication

Securing PHP and MySQL

PHP Configuration Parameters

Data Encryption

Securing the MySQL Server

Privileges

Conclusion

Course Overview

MySQL System Overview

Training and Certification Website

Course Evaluation
Thank You!
QA Session