

## **MySQL and PHP - Developing Dynamic Web Applications with Project**

(Training Duration: 32 hours) (Project duration as required)

### **What you will learn**

This MySQL and PHP - Developing Dynamic Web Applications will teach you how to develop applications in PHP and 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 to rapidly prototype and deploy dynamic websites.

### **Audience**

Database Administrators  
Database Designers  
Related Training

### **Required Prerequisites**

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

### **Course Objectives**

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 Topics

### 1 Introduction

Learning Objectives  
MySQL Overview  
Sun Acquisition  
MySQL Partners  
MySQL Products  
MySQL Database Server Products  
MySQL GUI Tools  
MySQL Connectors  
Solutions for Embedding MySQL  
MySQL Services  
MySQL Training  
MySQL Certification  
MySQL Consulting  
MySQL Support  
The MySQL Enterprise Subscription  
MySQL Enterprise Server  
24x7 Production Support  
MySQL Enterprise Monitor  
Obtaining a MySQL Enterprise Subscription  
Supported Operating Systems  
MySQL Certification Program  
Training Curriculum Paths  
MySQL Website  
MySQL Community Web Page  
MySQL Online Documentation

### 2. LAMP

Learning Objectives  
LAMP Architecture  
Apache Server  
Understanding the World Wide Web  
Client Side vs. Server Side scripting  
The MySQL Database  
What is a RDBMS  
Entities and Relationships  
RDBMS Database Structure  
PHP  
How is PHP used?  
How does PHP work?

PHP Design Consideration  
Comparing PHP to other tools  
Installing XAMPP

### 3. PHP Foundations

Learning Objectives  
Delimiting PHP Code  
Comments  
Construct Feedback  
Obtaining PHP Information  
PHP Data Types  
Scalar Data Types  
Compound Data Types  
Special Data Types  
Flow Control Statements  
Comparison Operators  
if ... else ... elseif  
Switch  
While  
Do ... While  
For  
Foreach  
PHP Functions  
User Defined Functions

### 4. MySQL Foundations

Learning Objectives  
MySQL General Architecture  
MySQL Server  
Client Programs  
Storage Engines  
The mysql Client  
Using mysql Interactively  
Statement Terminators  
Using script files with mysql  
Table Properties  
SELECT Statements  
SELECT with DISTINCT  
SELECT with WHERE  
SELECT with ORDER BY  
SELECT with LIMIT  
Aggregating Query Results

## 5. PHP Connecting to MySQL

Learning Objectives  
Connecting to MySQL  
Independent Connection Information  
Securing Connection Information  
Retrieving Data

## 6. Linking Between Tables

Learning Objectives  
HTML Links  
Anchor Tag  
Passing Data between Web Pages  
Link one dynamic page to another

## 7. SQL DML Commands

Learning Objectives  
The INSERT Statement  
INSERT with SELECT  
INSERT with LAST\_INSERT\_ID  
INSERT with NULL Values  
The UPDATE Statement  
UPDATE with SET  
UPDATE with ORDER BY  
UPDATE with LIMIT  
The REPLACE Statement  
INSERT with ON DUPLICATE KEY UPDATE Instead of REPLACE  
The DELETE Statement

## 8. MySQL Data Driven Web Based Forms

Learning Objectives  
HTML Web Forms  
Designing Web Forms  
Reading Web Form Submissions  
Combining MySQL and HTML Forms  
Updating MySQL based on Form Submissions  
Updating MySQL with Form Data  
Deleting MySQL Data with PHP  
Inserting MySQL Data with PHP

## 9. SQL JOINS

Learning Objectives

What is a Join?

Inner Joins

Comma Separated Inner Joins

Using Qualifiers and Aliases

Qualifying Column Names

## 10. Session Handling

Learning Objectives

What is Session Handling?

Session Handling Tasks

Session Handling and Security

Database Authentication

## 11. Template Systems

Learning Objectives

Template Systems

Smarty Template Engine

Object Oriented Programming

## Topics covered while project training :

- 1) Basic C and C++ concept (oops)
- 2) Database Concept
- 3) Basic Concept of core PHP
- 4) PHP with My sql
- 5) Advance database concept(join query)
- 6) PHP with JQuery & Ajax concept
- 7) Wordpress