

# SQL Syllabus

## INTRODUCTION

1. What is a Database?
2. RDBMS Terminology
3. MySQL Database

## INSTALLATION

1. Installing MySQL on Linux/UNIX
2. Installing MySQL on Windows
3. Verifying MySQL Installation
4. Post-installation Steps
5. Running MySQL at Boot Time

## ADMINISTRATION

1. Running and Shutting down MySQL Server
2. Setting Up a MySQL User Account
3. Administrative MySQL Command

## PHP SYNTAX

1. Data Types
2. Qualifier
3. Enum
4. Typedef

## CONNECTION

1. MySQL Connection Using MySQL Binary
2. MySQL Connection Using PHP Script

## CREATE DATABASE

1. Create Database Using mysqladmin
2. Create a Database Using PHP Script

## DROP DATABASE

1. Drop a Database using mysqladmin
2. Drop Database using PHP Script

## SELECT DATABASE

1. Selecting MySQL Database from the Command Prompt
2. Selecting a MySQL Database Using PHP Script

## DATATYPES

1. Numeric Data Types
2. Date and Time Types
3. String Types

## CREATE TABLES

1. Creating Tables from Command Prompt
2. Creating Tables Using PHP Script

## **DROP TABLES**

1. Dropping Tables from the Command Prompt
2. Dropping Tables Using PHP Script

## **INSERT QUERY**

1. Inserting Data from the Command Prompt
2. Inserting Data Using a PHP Script

## **SELECT QUERY**

1. Fetching Data from a Command Prompt
2. Fetching Data Using a PHP Script
3. Releasing Memory

## **WHERE CLAUSE**

1. Fetching Data from the Command Prompt
2. Fetching Data Using a PHP Script

## **UPDATE QUERY**

1. Updating Data from the Command Prompt
2. Updating Data Using a PHP Script

## **DELETE QUERY**

1. Deleting Data from the Command Prompt
2. Deleting Data Using a PHP Script

## **LIKE CLAUSE**

1. Using the LIKE clause at the Command Prompt
2. Using LIKE clause inside PHP Script

## **SORTING RESULTS**

1. Using ORDER BY clause at the Command Prompt
2. Using ORDER BY clause inside a PHP Script

## **USING JOIN**

1. Using Joins at the Command Prompt
2. Using Joins in a PHP Script
3. MySQL LEFT JOIN

## **NULL VALUES**

1. Using NULL values at the Command Prompt
2. Handling NULL Values in a PHP Script

## **REGEXPS**

## **TRANSACTIONS**

1. Properties of Transactions
2. COMMIT and ROLLBACK
3. Transaction-Safe Table Types in MySQL

## **ALTER COMMAND**

1. Dropping, Adding or Repositioning a Column

2. Altering (Changing) a Column Definition or a Name
3. Altering (Changing) a Column's Default Value
4. Altering (Changing) a Table Type
5. Renaming (Altering) a Table

## INDEXES

1. Simple and Unique Index
2. ALTER command to add and drop INDEX
3. ALTER Command to add and drop the PRIMARY KEY

## TEMPORARY TABLES

1. PWhat are Temporary Tables?
2. Dropping Temporary Tables

## CLONE TABLES

## DATABASE INFO

1. Obtaining and Using MySQL Metadata
2. Obtaining the Number of Rows Affected by a Query
3. Listing Tables and Databases

## USING SEQUENCES

1. Using AUTO\_INCREMENT Column
2. Renumbering an Existing Sequence

## HANDLING DUPLICATES

1. Preventing Duplicates from Occurring in a Table
2. Counting and Identifying Duplicates
3. Eliminating Duplicates from a Query Result
4. Removing Duplicates Using Table Replacement

## SQL INJECTION

1. Preventing SQL Injection
2. The LIKE Quandary

## DATABASE EXPORTS

1. Exporting Data with the SELECT INTO OUTFILE Statement
2. Exporting Tables as Raw Data
3. Copying Tables or Databases to Another Host

## DATABASE IMPORT

1. Importing Data with LOAD DATA
2. Importing Data with mysqlimport
3. Handling Quotes and Special Characters

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