SQL

Module 1:

Introduction to MySQL. Installation of MySQL server. Download sample database .Load sample database to work.

Module 2:

 Writing Basic SQL
Topic:
Basic SELECT Statement
Selecting All Columns
Selecting Specific Columns
Writing SQL Statements
Column Heading Defaults
Arithmetic Expressions
Using Arithmetic Operators
Operator Precedence
Using Parentheses
Defining a Null
Defining a Column Alias
Using Column Aliases
Concatenation Operator
Using the Concatenation Operator
Literal Character Strings
Using Literal Character Strings
Duplicate Rows
Eliminating Duplicate Rows

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Module 3:

Restricting and Sorting Data
Topic :
Limiting Rows Using a Selection
Limiting the Rows Selected
Using the WHERE Clause
Character Strings and Dates
Comparison Conditions
Using Comparison Conditions
Other Comparison Conditions
Using the BETWEEN Condition
Using the IN Condition
Using the LIKE Condition
Using the NULL Conditions
Logical Conditions
Using the AND Operator
Using the OR Operator
Using the NOT Operator
Rules of Precedence
ORDER BY Clause
Sorting in Descending Order
Sorting by Column Alias
Sorting by Multiple Columns

Module 4:

Working on DDL Commands
Topic:
Relational Database Management System (RDBMS)
Normalization
Create Database objects
Data Types in SQL
Alter Table Statements
Drop Table Statements
Various Constraints
Creating Views

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Module 5:

Working on DML statements
Topic:
Data Manipulation Language
Adding a New Row to a Table
The INSERT Statement Syntax 8-5
Inserting New Rows
Inserting Rows with Null Values
Inserting Special Values
Inserting Specific Date Values
Creating a Script
Copying Rows from Another Table
Changing Data in a Table
The UPDATE Statement Syntax
Updating Rows in a Table
Updating Two Columns with a Subquery
Updating Rows Based on Another Table
Updating Rows: Integrity Constraint Error
Removing a Row from a Table
The DELETE Statement
Deleting Rows from a Table
Deleting Rows Based on Another Table
Deleting Rows: Integrity Constraint Error
Using a Subquery in an INSERT Statement

Module 6:

Working on multiple tables and Retrieve records from multiple tables
Topic :
Self-Join
Inner Join
Left Join
Right Join
Cross Join

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Module 7:

Working on subqueries
Topic :
Using a Subquery to Solve a Problem
Subquery Syntax
Using a Subquery
Guidelines for Using Subqueries
Types of Subqueries
Single-Row Subqueries
Executing Single-Row Subqueries
Using Group Functions in a Subquery
The HAVING Clause with Subqueries
Multiple-Row Subqueries
Using the ANY Operator in Multiple-Row Subqueries
Using the ALL Operator in Multiple-Row Subqueries
Null Values in a Subquery

Module 8:

Use of built-in function in SQL
Topics:
Conversion Function
Logical Functions
Math Function
Aggregate Functions
String Functions
Date Functions

Module 9:

Advance functions in SQL
Topics:
Sql Server Trigger
Sql Server Procedure
Sql Server Functions
Sql Server Index
Sql Server Views
Manage and secure a database
Monitor and optimize performance

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