



SQL & MySQL Course Details

◆ Course Overview

This course teaches you complete SQL and MySQL database skills from beginner to advanced level.

You will learn how to design databases, write SQL queries, manage data, and work with real-world projects.

◆ What You Will Learn

1. SQL Basics

- What is a database?
 - Tables, rows, columns
 - Primary keys & foreign keys
 - Data types
 - Basic SQL syntax
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2. Essential SQL Commands

📌 Data Retrieval (SELECT)

- SELECT, WHERE
- Sorting (ORDER BY)
- Filtering operators
- BETWEEN, IN, LIKE
- LIMIT

📌 Joins

- INNER JOIN
- LEFT JOIN
- RIGHT JOIN



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- FULL JOIN

Grouping & Aggregation

- GROUP BY
 - HAVING
 - COUNT, SUM, AVG, MIN, MAX
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3. Data Manipulation (CRUD)

- INSERT
 - UPDATE
 - DELETE
 - Truncate tables
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4. MySQL Database Design

- ER diagrams
 - Normalization (1NF, 2NF, 3NF)
 - Relationships (1–1, 1–many, many–many)
 - Indexing for performance
 - Constraints (UNIQUE, CHECK, NOT NULL)
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5. Advanced SQL

- Subqueries
- Views
- Stored Procedures
- Triggers



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- Functions
 - Transactions (COMMIT, ROLLBACK)
 - Joins with multiple tables
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6. MySQL Tools

- MySQL Workbench
 - phpMyAdmin
 - Command Line MySQL
 - Import/Export databases
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◆ Projects You Will Build

- Student Management System
 - Online Store Product Database
 - Employee Payroll System
 - Library Management Database
 - Blogging/MySQL CRUD system
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◆ Course Duration

- 1 to 1.5 months (practice included)
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◆ Who Can Join

- Complete beginners
- Students
- Developers



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- Anyone wanting to work with databases