

SQL Free Course with Project | Syllabus

With Project Data Science & Web Development

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Module: 1 [Fundamental of SQL and DBMS]

Unit: 1 Introduction and Installation Software

- 1.1. Roadmap to learn SQL
- 1.2. Download & Install MySQL
- 1.3. Download & Install XAMPP
- 1.4. Download & Install PostgreSQL & Pgadmin

Unit:2 Fundamentals of SQL

- 2.1. Introduction to SQL
- 2.2. Database Fundamental
- 2.3. Learning Resources
(Cheat Code | Practice Dataset | PDF Notes & Books | Learning Website | Interview Questions)

Unit:3 Case Study with Example

- 3.1. Create Database | Drop Database | Create Table | Insert Table | Drop Table
- 3.2. Case study with XAMPP Software
- 3.3. Case study with MySQL software
- 3.4. Case study with PostgreSQL

Unit: 4 Data Types and Keys

- 4.1. All Data Type in SQL
- 4.2. ER / Database Diagram Example: Amazon Ecommerce
- 4.3. Database Keys
- 4.4. Cardinality of Relationships
- 4.5. Drawbacks of Databases

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Module: 2 [SQL DDL Commands “Data Definition Language”]

Unit: 5 DDL Commands for SQL

- 5.1. DDL Commands for Databases: Create | Drop
- 5.2. DDL Commands for Table: Create | Truncate | Drop
- 5.3. Data Indignity

Unit: 6 Constraints

- 6.1. Constraints in MySQL (NOT NULL | UNIQUE | PRIMARY KEY)
- 6.2. Constraints in MySQL (AUTO INCRIMENT | CHECK | DEFAULT | FOREIGN KEY)
- 6.3. Referential Actions (Restrict | CASCADE | SET NULL | SET DEFAULT)

Unit: 7 Alter Table

- 7.1. ADD Columns in Alter Table
- 7.2. DELETE Columns in Alter Table
- 7.3. MODIFY Columns in Alter Table

Unit: 8 ADD, Editing and Deleting Constraints

- 8.1. ADD Constraints
- 8.2. DELETE Constraints
- 8.3. EDIT Problems in MySQL, Drop Constrains

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Module: 3 [SQL DML Commands “Data Manipulation Language”]

Unit: 9 INSERT Query

- 9.1. INSERT query
- 9.2. INSERT query variation
- 9.3. INSERT multiple values

Unit: 10 SELECT Query

- 10.1. SELECT all columns

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- 10.2. Filter columns
- 10.3. Alias | renaming columns
- 10.4. Create expression using columns
- 10.5. Constant value
- 10.6. DISTINCT(unique) values from a column
- 10.7. DISTINCT Combinations
- 10.8. Filter rows WHERE clause
- 10.9. BETWEEN operator
- 10.10. IN and NOT IN Operator

Unit: 11 UPDATE Query

- 11.1. Update Query to update row(s)
- 11.2. Update Multiple Columns

Unit: 12 DELETE

- 12.1. DELETE Query to delete row(s)
- 12.2. Deletion based on multiple conditions

Unit: 13 Aggregate Functions in MySQL/SQL

- 13.1. MAX() & MIN()
- 13.2. AVG()
- 13.3. SUM()
- 13.4. COUNT()
- 13.5. STD()
- 13.6. VARIANCE()

Unit: 14 Scalar Functions in MySQL/SQL

- 14.1. ABS()
- 14.2. ROUND()
- 14.3. CEIL() & FLOOR()

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Module: 4 [SQL Joins + Subquery]

Unit: 15 SQL Joins

- 15.1. What are SQL joins?
- 15.2. Types of Joins
- 15.3. Cross Joins --- Cartesian Products
- 15.4. Inner Joins
- 15.5. Right Joins
- 15.6. Left Joins
- 15.7. Full Outer Join
- 15.8. Set Operations
- 15.9. Self-Join
- 15.10. Filtering Columns
- 15.11. Filtering Rows

Unit: 16 Subquery

- 16.1. What is Subquery?
- 16.2. Scalar Subquery
- 16.3. Row Subquery
- 16.4. Table Subquery
- 16.5. Correlated Subquery

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Module: 5 [Grouping + Sorting + ER Diagram]

Unit: 17 Sorting

- 17.1. Fundamental of SQL Sorting
- 17.2. Sorting top 10 data
- 17.3. Sorting Descending Orders
- 17.4. Sorting functions in datasets

Unit: 18 Grouping

- 18.1. Fundamental of SQL Grouping
- 18.2. Grouping Average Function
- 18.3. Group By on multiple columns
- 18.4. Sorting Descending Orders
- 18.5. Sorting functions in datasets

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Module: 6 [End to End Projects]

Unit: 19 Project: Data Analyst | Data Science

- 19.1. Case Study in Indian Premier League (IPL Dataset)
- 19.2. Find the top 5 batsmen in IPL
- 19.3. Find the 2nd highest 6 hitters in IPL
- 19.4. Find Batsman (M.S Dhoni, Virat Kohli) performance against all IPL team
- 19.5. Find the top 10 batsmen with centuries in IPL using Sub-Quires
- 19.6. Find the top 5 batsmen with the highest strike rate
- 19.7. Find 5 Batsman who have played a min of 1000 balls

Unit: 20 Project: Web Development

- 20.1. Writing Python Codes for Registration Form
- 20.2. Create Database for Registration
- 20.3. Login codes written in Python
- 20.4. Select the Database for Login
- 20.5. Profile Review for Login System

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