



ForumDE
Code your career

LIVE COURSE

SQL

Certification Course

- **100%** Job Oriented Training
- Industry Expert Faculties
- Industry oriented syllabus
- Online training
- Real-time Projects
- Interview Preparation

New Batch going to start from
23.08.2024

For more Details

Contact us.... 17.08.2024



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SQL



SQL SYLLABUS

1.INTRODUCTION TO DATABASES AND SQL

- Overview of databases/Schema
- Types of databases (relational vs non-relational)
- Introduction to SQL
- Basic SQL syntax Setting up a database environment (installing SSMS/Sql Server)

2.BASIC SQL COMMANDS

- Creating databases and tables (CREATE DATABASE, CREATE TABLE)
- Inserting data into tables (INSERT INTO)
- Selecting data (SELECT)
- Updating data (UPDATE)
- DELETE,DROP.TRUNCATE

3.DATA TYPES AND CONSTRAINTS

- Common data types (int, varchar, date, etc.)
- Primary keys
- Foreign key
- Unique constraints
- Not null constraints

4.BASIC QUERYING

- Simple SELECT statements
- Using WHERE clause for filtering
- Basic AND, OR, NOT operators
- Sorting results with ORDER By

5.AGGREGATE FUNCTION AND GROUPING

- Using aggregate functions (COUNT, SUM, AVG, MIN, MAX)
- Grouping results with GROUP BY
- Filtering grouped data with HAVING

6.JOINS

- Understanding relationships between tables
- Inner joins
- Left (outer) joins
- Right (outer) joins
- Full (outer) join

7.SUBQUERIES AND CTE

- Introduction to subqueries
- Using subqueries in SELECT, FROM, WHERE, HAVING clauses
- Correlated subqueries
- CTE

8.ADVANCE QUERYING

- Using CASE statements
- Working with NULL values
- String functions (CONCAT, SUBSTRING, REPLACE)
- Date functions (NOW, DATEADD, DATEDIFF)

9.WINDOW FUNCTION

- Introduction to window functions
- Using OVER Clause
- ROW_NUMBER(), RANK(), DENSE_RANK(), Lead, Lag
- Partitioning data with PARTITION BY
- Ordering data within partitions

10.INDEXES AND PERFORMANCE TUNING

- Basic performance tuning tips
- Introduction to indexes
- Creating and dropping indexes
- Understanding query execution plans

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11.STORED PROCEDURES AND FUNCTIONS

- introduction to stored procedures
- Creating and executing stored procedures
- Creating and using functions
- Advantages of stored procedures and functions

12.VIEW

- Introduction to views
- Creating and using views
- Updating data through views
- Advantages and limitations of views

13.BONUS LECTURE

- To be decided as per Time left

*BATCH DETAILS:

- The classes will commence on **August 23rd, 2024** and the **expected duration** of the course will be **3months**.
- The classes will be **Instructor led online training**.
- The classes will be held on
- **SQL (Friday, Saturday and Sunday)** The timing of classes will be **07:00 pm to 08:30 pm**.
- Classroom video recording will be provided to all the candidates till **1 year** from the date of course completion.
- **Sharing of videos to another person is strictly prohibited.**

Contact us For Admission or Queries: -



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