



SQL Database Syllabus

Chapter 1: Introduction to Python Programming

- Understanding databases and their importance in modern computing.
- Overview of different types of databases: Relational and Non-Relational.
- Introduction to SQL and NoSQL.
- Practice: Hands-on exercises covering all the covered topics and review of key concepts with practical applications.

Chapter 2: Relational Databases (SQL)

- Overview of SQL databases, including Oracle, MySQL, PostgreSQL, SQL Server, etc.
- Understanding the relational model and SQL fundamentals.
- Practice: Hands-on exercises covering all the covered topics and review of key concepts with practical applications.

Chapter 3: Languages in SQL

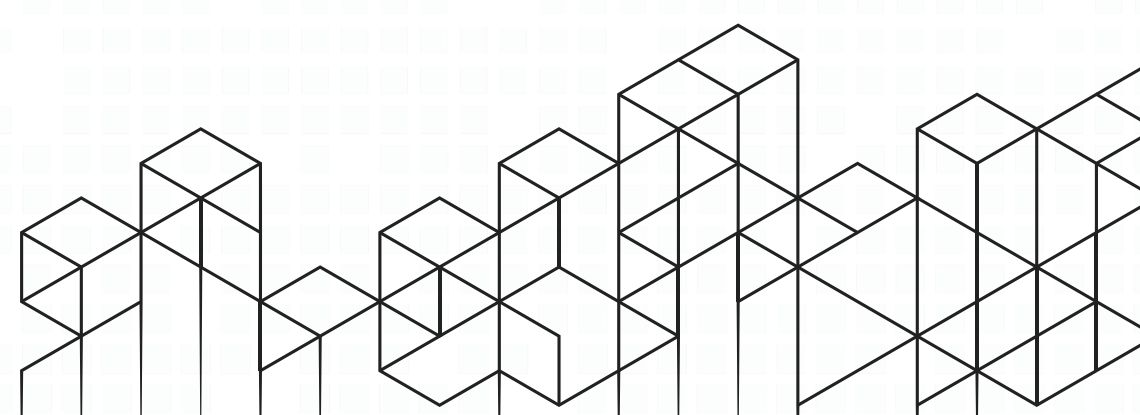
- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL) or Data Retrieval Language (DRL)
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

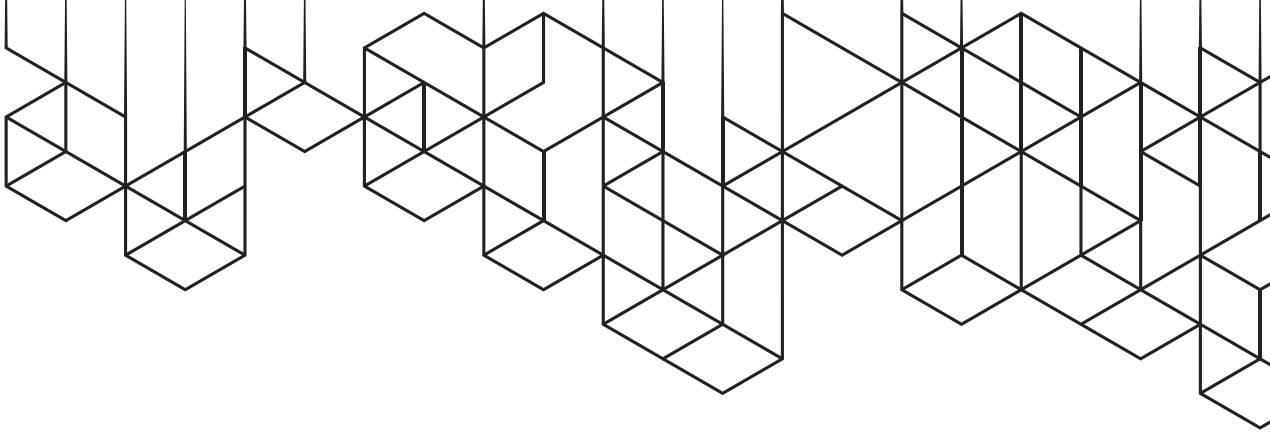
Chapter 4: Operators in SQL

- Set Operators
- Arithmetic Operators
- Relational Operators
- Comparison Operators
- Logical Operators
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 5: Built-in Functions in SQL

- Aggregate / Group Functions
- String / Character Functions
- Numeric / Math Functions
- Conversion Functions
- Date, Time Functions and Date Formats
- Conditional Functions
- NULL-related Functions
- Analytical / Window Functions
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.





Chapter 6: SQL Clauses

- SELECT
- FROM
- WHERE
- GROUP BY
- HAVING
- ORDER BY
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 7: Constraints in SQL

- NOT NULL Constraint
- UNIQUE Constraint
- PRIMARY KEY Constraint
- FOREIGN KEY / REFERENCE KEY Constraint
- CHECK Constraint
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 8: JOINS in SQL

- CROSS / CARTESIAN Join
- INNER Join
 - Equi Join
 - Non-Equi Join
 - SELF Join
- OUTER Join
 - Left Outer Join (or Left Join)
 - Right Outer Join (or Right Join)
 - Full Outer Join (or Full Join)
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 9: Subqueries in SQL

- Single-Row Subquery
- Multiple-Row Subquery
- Correlated Subquery
- Nested Subquery
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 10: Pseudocolumns in SQL

- ROWID, ROWNUM, ROWSCN
- LEVEL
- SYSDATE
- USER
- UID
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 11: Views in SQL

- Definition and Purpose
- Creation and Querying Views
- Types of Views
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 12: Normalization

- Definition and Purpose
- First Normal Form (1NF)
- Second Normal Form (2NF)
- Third Normal Form (3NF)
- Practice: Hands-on exercises covering all the covered topics and review of key concepts and practical applications.

Chapter 13: Interview and Resume Preparation

- Mock Interview Practice
- Resume Preparation



Certification after Completion



Contact Us



+91- 9008677359



careerlaunchpad@globalhubsolutions.in