

> Basic SQL for Testers

1. What is SQL, and why is it important for testers?
2. What are SELECT, INSERT, UPDATE, and DELETE statements?
3. How do you retrieve specific columns from a table?
4. How do you filter data using the WHERE clause?
5. How do you sort data using ORDER BY?

> Data Validation / Testing Focus

1. How do you validate that data entered in the UI is stored correctly in the database?
2. Write a query to check for duplicate records in a table.
3. How do you write a query to count the number of records in a table?
4. What is the difference between = and LIKE in SQL?
5. How can you compare two tables and find mismatched records?

> Joins and Relationships

1. What is a JOIN, and why would a tester use it?
2. What is the difference between INNER JOIN and LEFT JOIN?
3. Write a query to fetch user details along with their order details (2-table join).
4. How do you test referential integrity using SQL?

> Aggregations and Grouping

1. How do you use GROUP BY and HAVING clauses?
2. Write a query to find the total number of orders per customer.
3. How do you test that calculated fields (like totals or averages) are correct?

> Database Concepts

1. What is a primary key and foreign key?
2. What are indexes, and how do they impact query performance?
3. What is normalization, and why is it important?

> Advanced SQL Testing

1. How do you find the second highest salary using SQL?
2. How do you use subqueries in testing scenarios?
3. What is a view, and how do you test data from a view?
4. How do you handle NULL values in SQL queries?

5. How do you write test cases based on SQL queries for data validation?