MySQL Interview Questions

Basic Level Questions

- What is MySQL?

- What are the different data types in MySQL?

- What is the difference between CHAR and VARCHAR?

- What is a primary key?

- What is a foreign key?

- What is the difference between WHERE and HAVING clauses?

- What is the default port for MySQL?

- How do you create a database in MySQL?

- What is the difference between DELETE, TRUNCATE, and DROP?

- What are indexes in MySQL and why are they used?

Intermediate Level Questions

- How do INNER JOIN, LEFT JOIN, RIGHT JOIN, and FULL JOIN work?

- What is normalization? Explain different normal forms.

- What is denormalization?

- What is the difference between UNION and UNION ALL?

MySQL Interview Questions

- How can you improve the performance of a MySQL query?

- What is the difference between IN and EXISTS?

- What is a stored procedure?

- How do you implement transactions in MySQL?

- What is ACID property in databases?

- What is the difference between MyISAM and InnoDB storage engines?

Advanced Level Questions

- How do you perform indexing on large datasets?

- Explain query execution plan and how to analyze it using EXPLAIN.

- What are triggers in MySQL? How do you create them?

- What are views in MySQL and when would you use them?

- What are user-defined functions (UDFs)?

- How can you handle deadlocks in MySQL?

- How do you secure a MySQL database?

- What are common causes of slow queries in MySQL?

- How do you backup and restore MySQL databases?

MySQL Interview Questions

- What are common replication types in MySQL (e.g., master-slave, master-master)?

Practical Query Challenges

- Write a query to get the top 5 highest salaries from an employee table.

- Write a query to find duplicate records in a table.

- Write a query to update data in one table based on data in another table.

- Write a query to calculate total sales per month from a sales table.

- Write a subquery and a correlated subquery.