# **CampusX Live**

## **SQL Interview Questions for Data Science**

#### Common Questions

- 1. Write a query to add multiple cols in a table
- 2. Write a query to add/delete multiple cols in a table
- 3. Write a query to find out the 2nd highest value in a table
- 4. Find max value without using ORDER BY
- 5. Find managers of all employees
- 6. Use of wild cards
- 7. If else based questions
- 8. Find category-wise top value
- 9. Find/delete all the duplicate values
- 10. Joining tables

### • Theory Questions

- 1. SQL Vs NoSQL Databases
- 2. Tables required for many to many relationship
- 3. Draw schema design for swiggy.
- 4. Types of Joins -> Union Vs Union All
- 5. OLAP Vs OLTP [Normalized Vs Denormalized Data]
- 6. Database keys
- 7. Types of normalization
- 8. What are indexes in Databases and what are it's types
- 9. What are transactions in databases? Explain ACID properties.
- 10. Define
  - a. Views
  - b. Stored Procedures

#### Case Study

- You are building an application like tinder, consider the following scenarios:
  - There will be multiple users
  - Users can right swipe each other to send dating request
  - Users can send any number of requests to other users
    Convert the above business scenario to database tables
    Write a query to print the name and details of all the users to whom a particular user has sent request.
  - □ Write a query to find the name of the user who has sent 2nd most number of requests, also print the count.
  - □ Homework Find the name of the user who has received min number of requests
  - ☐ Find all the matches for a particular user
  - ☐ **Homework** Find all the unique couples

- 2. Swiggy Case Study
  - a. Find customers who have never ordered
  - b. Average Price/dish
  - c. Find top restautant in terms of number of orders for a given month
  - d. restaurants with monthly sales > x for a particular month
  - e. Show all orders with order details for a particular customer in a particular date range
  - f. Customer -> favorite food
  - g. Find the restaurant with max repeat customers
  - h. Find most loyal customers for all restaurant[Homework]
  - i. Month over month revenue growth of a restaurant/swiggy
  - j. Most Paired Products