■ 50 Must-Do SQL Interview Questions

- 1. Select all employees whose salary is greater than 50,000.
- 2. Find employees who joined in the last 30 days.
- 3. Retrieve distinct department names from the employee table.
- 4. Sort employees by salary in descending order.
- 5. Count the number of employees in each department.
- 6. Find employees whose name starts with 'A'.
- 7. Retrieve top 3 highest-paid employees.
- 8. Write a query to find NULL values in a column.
- 9. Display employees who don't have a manager assigned.
- 10. Difference between WHERE and HAVING? Write gueries for both.
- 11. Write a query to get employees along with their department names.
- 12. Find employees who don't belong to any department.
- 13. List all departments and the number of employees in each.
- 14. Get employees and their manager's name (self join).
- 15. Find customers who placed orders in the last 7 days.
- 16. Write a query to fetch employees working in more than one project.
- 17. Difference between INNER JOIN and LEFT JOIN with examples.
- 18. Find products ordered by more than 5 unique customers.
- 19. Retrieve employees who never made a sale (anti join).
- 20. Write a query using CROSS JOIN.
- 21. Find the second highest salary.
- 22. Get Nth highest salary (N=3).
- 23. List departments where average salary > 60,000.
- 24. Find employees earning more than department average.

- 25. Write a query to calculate running total of sales.
- 26. Find employees whose salary is above company average.
- 27. Get employees with the same salary.
- 28. Find employees who earn more than their manager.
- 29. Get the difference between max and min salary in each department.
- 30. Find employees whose salary is in top 10% overall.
- 31. Write a query to rank employees by salary within each department.
- 32. Find the first and last order date of each customer.
- 33. Calculate 7-day moving average of sales.
- 34. Find employees whose salary decreased compared to last year.
- 35. Identify customers with 3 consecutive failed transactions.
- 36. Get the previous and next salary for each employee using LAG and LEAD.
- 37. Calculate retention: users who logged in on D1, D7, and D30.
- 38. Find running average of employee salaries.
- 39. Find employees with highest salary in each department using window functions (not subqueries).
- 40. Show rank vs dense rank difference with example.
- 41. Write a query to calculate churn rate of customers.
- 42. Build a funnel: impression \rightarrow click \rightarrow add-to-cart \rightarrow purchase.
- 43. Calculate conversion rate at each funnel stage.
- 44. Find repeat purchase rate of customers.
- 45. Identify power users (5+ logins per week).
- 46. Find inactive users in the last 60 days.
- 47. Calculate Customer Lifetime Value (CLV).
- 48. Find average time between two purchases per user.
- 49. Get drop-off rate between two funnel steps.
- 50. Identify users who upgraded from free \rightarrow paid plan.