

SQL Intern Test – Practical Questions

Database Schema:

Table: employees

- emp_id (INT, PK)
- name (VARCHAR)
- department_id (INT)
- salary (INT)
- joining_date (DATE)

Table: departments

- department_id (INT, PK)
- department_name (VARCHAR)

Table: orders

- order_id (INT, PK)
- emp_id (INT, FK)
- amount (INT)
- order_date (DATE)

Section 1 – SELECT:

1. Fetch all employees.
2. Fetch only name and salary.
3. Employees with salary > 50000.
4. Employees joined after 2023-01-01.
5. Top 3 highest paid employees.

Section 2 – UPDATE:

6. Increase salary by 10% for department_id = 2.
7. Update salary to 40000 where name = 'Rahul'.
8. Change department of emp_id = 5 to 3.

Section 3 – DELETE:

9. Delete employees with salary < 20000.
10. Delete orders before 2022.

Section 4 – Aggregate:

11. Total employees.
12. Average salary.
13. Max and Min salary.
14. Total salary.

Section 5 – GROUP BY:

15. Employees per department.
16. Avg salary per department.
17. Departments with more than 3 employees.
18. Total order amount per employee.

Section 6 – JOIN:

19. Employee name with department.
20. Employees with at least one order.
21. Employee with total order amount.
22. Department with total salary.
23. Employees with no orders.

Section 7 – Mixed:

24. Top 2 departments by avg salary.
25. Employees earning more than company avg.
26. Employee with highest order amount.
27. Department with max revenue.
28. Month-wise orders in 2024.

Bonus:

29. Second highest salary.
30. Delete duplicate employees.
31. Increase salary by 5% for employees with no orders.