

Debug With Shubham Notes

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NQT 2025

Top-25 SQL Interview Question & Ans

Ninja,Digital,Prime Role 2025



25 Most Important

SQL Queries to

Crack Any Interview 2025

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Table Structure Used in Examples

Basic SQL Queries

JOINS

Filtering and Sorting

Aggregations & Subqueries

Nested Queries / Correlated Subqueries

Window Functions (Advanced)

Set Operators

String & Date Functions

Practice-Style Queries

1. Get all employee records.

SELECT * FROM Employees;

2. Get names of employees from the IT department.

SELECT Name FROM Employees WHERE Department = 'IT';

3. Get employees with salary greater than 55000.

SELECT * FROM Employees WHERE Salary > 55000;

4. Count number of employees in each department.

SELECT Department, COUNT(*) FROM Employees GROUP BY Department;

5. Get maximum salary in each department.

SELECT Department, MAX(Salary) FROM Employees GROUP BY Department;

6. Get employee names along with their department names.

**SELECT E.Name, D.DeptName FROM Employees E
JOIN Departments D ON E.Department = D.DeptName;**

7. Find employees with no valid department in the Departments table.

SELECT E.Name FROM Employees E LEFT JOIN Departments D ON E

8. List top 3 highest-paid employees.

SELECT * FROM Employees ORDER BY Salary DESC LIMIT 3;

9. Get employees with salary between 50000 and 60000.

```
SELECT * FROM Employees WHERE Salary BETWEEN 50000 AND 60000;
```

10. List departments with more than one employee.

```
SELECT Department, COUNT(*) FROM Employees GROUP BY Department HAVING COUNT(*) > 1;
```

11. Get the average salary of all employees.

```
SELECT AVG(Salary) FROM Employees;
```

12. Find employees earning more than the average salary.

```
SELECT * FROM Employees WHERE Salary > (SELECT AVG(Salary) FROM Employees);
```

13. Get the department with the highest total salary.

```
SELECT Department FROM Employees GROUP BY Department ORDER BY SUM(Salary) DESC LIMIT 1;
```

14. Find the highest-paid employee in each department.

```
SELECT * FROM Employees E1 WHERE Salary = (
```

```
SELECT MAX(Salary) FROM Employees E2 WHERE E1.Department = E2.Department);
```

15. Find employees who earn the highest salary overall.

```
SELECT * FROM Employees WHERE Salary = (SELECT MAX(Salary) FROM Employees);
```

16. Rank employees by salary within departments.

```
SELECT Name, Department, Salary,
```

```
RANK() OVER (PARTITION BY Department ORDER BY Salary DESC) AS SalaryRank FROM Employees;
```

17. Show cumulative salary by department.

SELECT Name, Department, Salary,

SUM(Salary) OVER (PARTITION BY Department ORDER BY Salary) AS CumSalary FROM Employees;

18. Get departments listed in Employees but not in Departments.

SELECT DISTINCT Department FROM Employees WHERE Department NOT IN (SELECT DeptName FROM Departments);

19. Get employees whose names start with 'A'.

SELECT * FROM Employees WHERE Name LIKE 'A%';

20. Format salary with a currency symbol (MySQL).

SELECT Name, CONCAT('\$', FORMAT(Salary, 2)) AS Salary FROM Employees;

21. Find the second highest salary.

SELECT MAX(Salary) FROM Employees WHERE Salary < (SELECT MAX(Salary) FROM Employees);

22. Find duplicate department entries in Employees.

SELECT Department, COUNT(*) FROM Employees GROUP BY Department HAVING COUNT(*) > 1;

23. Order employees by department and then salary descending.

SELECT * FROM Employees ORDER BY Department, Salary DESC;

24. List all unique departments across Employees and Departments.

SELECT Department FROM Employees UNION SELECT DeptName FROM Departments;

25. List departments where no employee works.

SELECT DeptName FROM Departments WHERE DeptName NOT IN (SELECT Department FROM Employees);