

SQL Questions – Organized by Topic and Difficulty

INTERMEDIATE LEVEL

SUBQUERY (20 Questions)

1. Find employees who earn more than the average salary.
2. Retrieve employees whose salary is above the average salary of their department.
3. Find departments where the employee count exceeds 5.
4. List employees who do not receive any commission.
5. Fetch employees from the department with the highest average salary.
6. Display employees earning less than the maximum salary in their department.
7. Find managers whose salary is higher than the company average.
8. Retrieve employees having the same job as 'SMITH'.
9. List employees earning more than employee with EMPNO = 7369.
10. Find employees hired in years where minimum salary was below 2000.
11. Display employees belonging to the top 10 percent salary bracket.
12. Retrieve employees earning more than any employee in department 20.
13. Find employees whose salary is between the lowest and highest salary in their department.
14. Show employees with the second highest salary.
15. List employees having the same salary as 'JONES'.
16. Retrieve employees whose commission exceeds the average commission.
17. Fetch employees not working in the same department as 'FORD'.
18. Find employees whose salary differs from the department average.
19. List employees in single-employee departments.
20. Display employees earning more than all employees in department 30.

NESTED SUBQUERY (20 Questions)

1. Find employees in the department with the highest average salary.
2. Retrieve employees earning more than the maximum salary of department 10.
3. Find departments where all employees earn above 2000.
4. List employees earning less than the maximum salary of their managers.
5. Retrieve employees hired after the earliest hire in department 20.
6. Fetch employees working in departments where managers earn more than 5000.
7. Retrieve employees earning more than any employee in department 30.
8. List employees earning less than all employees in department 40.
9. Retrieve employees earning more than the average salary of department 10 but less than that of department 20.
10. Find departments where the total salary exceeds the overall average department total salary.

11. Show employees who earn more than the minimum salary in department 10.
12. Retrieve employees earning more than the average salary in departments having more than five employees.
13. List employees not in the department with maximum salary 10000.
14. Display employees whose salary lies between the minimum and maximum salary of department 20.
15. Retrieve employees whose manager earns more than average salary of their department.
16. Find employees hired after the lowest-salaried employee.
17. Show employees earning above the average salary of non-department-30 employees.
18. Retrieve employees from departments with average salary above overall company average.
19. List employees earning less than maximum salary among same-job employees.
20. Fetch employees with salary equal to second-highest salary in their department.

JOIN (20 Questions)

1. Retrieve employee names and their department names.
2. List employees and their manager names.
3. Fetch employee names and job titles.
4. Display employee names and department locations.
5. Retrieve employees and department details including manager info.
6. List employees in departments located in NEW YORK.
7. Fetch employees with their salaries and department average salary.
8. Display employees and their direct reports.
9. Retrieve employees and their project names.
10. List employees and department names where department size exceeds 5.
11. Show employees and total salary of their department.
12. Retrieve employees with manager name, department name and location.
13. Display employees whose job salary grade is above 5.
14. Show employees and department heads.
15. Retrieve employees working on more than one project with project details.
16. Display employees and number of employees in their department.
17. Show employees and maximum salary in their department.
18. List employees and their project managers.
19. Retrieve employees working in the same location as FORD.
20. Display employees with project names and department locations.

ADVANCED LEVEL

SUBQUERY (20 Questions)

1. Retrieve employees earning more than average of top 3 salaries.

2. Find employees earning more than job-group average.
3. List departments with minimum salary less than 3000.
4. Retrieve employees not earning max salary in any department.
5. Find employees whose salary exceeds sum of department minimum salaries.
6. List employees earning more than combined department 10 and 20 averages.
7. Retrieve employees with salaries between second and third highest.
8. Find employees earning above company median salary.
9. List employees earning average salary of same hire month.
10. Retrieve employees earning above department average excluding themselves.
11. Show employees earning more than any employee in department 30.
12. Find employees earning more than 90 percent of the company.
13. Retrieve employees earning more than managers' average salary.
14. List employees earning above average salary for same hire year.
15. Find employees whose salary is above top salary quartile.
16. Retrieve employees earning below average among same job group.
17. Show employees whose salary lies between department 10 and 20 averages.
18. Fetch employees in departments with fewer than 5 employees and above its average salary.
19. Find employees earning more than twice department average salary.
20. List employees not earning max salary in departments with max > 10000.

NESTED SUBQUERY (20 Questions)

1. Find employees earning above average salary of employees earning > 5000.
2. Retrieve employees in departments where all earnings exceed 2000.
3. Fetch employees earning above department average where dept has >10 employees.
4. List employees earning less than minimum salary in department 10.
5. Retrieve employees hired after second-highest-salaried employee.
6. Show employees whose department total salary exceeds department 30.
7. Fetch employees earning above average salary outside their department.
8. Retrieve employees not in the department having maximum salary.
9. Display employees earning above average of commission earners.
10. List employees whose salary lies between second and third highest of department.
11. Retrieve employees whose manager earns less than department minimum.
12. Show employees hired after department median hire date.
13. Fetch employees whose salary exceeds average salary of employees hired before 2020.
14. List employees from departments whose average salary is above company average.
15. Retrieve employees earning less than all managers in department 20.
16. Find employees earning above 75 percent of department.
17. Retrieve employees hired after earliest hire in department 10.

18. Display employees earning above average in departments with fewer than 5 employees.
19. Find employees earning above maximum salary of same hire year.
20. Retrieve employees earning second-highest salary among those earning > 4000.

JOIN (20 Questions)

1. Retrieve employees with job titles and manager names.
2. List departments with employee count and average salary.
3. Fetch employee names and project names for multi-project employees.
4. Show employees with department, manager and location.
5. Retrieve employees and their salary grade.
6. Show employees on projects with duration > 6 months.
7. Fetch employees and total department salary.
8. Display employees and their direct reports.
9. List employees and project managers.
10. Retrieve employees with department location and total department salary.
11. List highest-paid employee of each department with department name.
12. Show employees who are project leads.
13. Display employees and total number of projects assigned.
14. Retrieve employees and their peers in same department.
15. List employees with their department manager.
16. Fetch employees and average salary for same job group.
17. Retrieve employees and second-highest salary in department.
18. Display employees and project budgets above 100000.
19. List employees in departments having more than 10 employees.
20. Retrieve full employee, project, department and manager details.