

SQL Practice Questions - JOINS, Window Functions, and CTEs

JOINS

1. List all employees with their department names.
2. Find employees who have not made any sales.
3. List departments that have no employees.
4. List employees and their total sales amount.
5. List each sale with the employee name and department.
6. Find the highest-paid employee in each department.
7. Get employees who joined before 2021 and are in the Sales department.

Window Functions

8. Rank employees based on salary within each department.
9. Find the running total of sales per employee ordered by date.
10. Calculate average salary per department and show it alongside each employee.
11. Find employees whose salary is above the average salary of their department.
12. Find 2nd highest salary in each department.
13. Show previous and next salary for each employee (use LAG, LEAD).
14. List employees with their % of total department salary.

CTEs

15. Use a CTE to get top 2 highest salary employees per department.
16. With CTE, find total sales by employee and filter those with more than 1500.
17. Create a CTE to find departments with more than 1 employee.
18. With CTE, calculate average sales per employee and show who is above average.
19. Use a recursive CTE to generate numbers from 1 to 10.
20. Use CTE to find employees who joined earliest in their department.