

SQL PRATICAL

◆ A. Table Creation & Insertion

1. Write a query to create a table for departments with dept_id and dept_name.
 2. Create an Employees table with emp_id, emp_name, salary, dept_id, and join_date.
 3. Insert at least 3 records into the Departments table.
 4. Insert 5 records into the Employees table.
-

◆ B. SELECT & WHERE Clause

5. Display all employee names and their salaries.
 6. Select employees with a salary greater than 60000.
 7. Show employees who joined after 1st January 2021.
 8. Retrieve employee details where department ID is 2.
 9. Display employees whose name starts with 'A'.
-

◆ C. UPDATE & DELETE

10. Update the salary of employees in the 'HR' department by 10%.
 11. Change the department of employee 'Bob' to department ID 3.
 12. Delete records of employees who joined before 2020.
 13. Delete an employee with emp_id = 104.
 14. Increase salary by 5000 for employees in department ID 1.
-

◆ D. Aggregate Functions

15. Find the total salary expense of all employees.
16. Calculate the average salary in each department.
17. Display the highest salary in the employee table.

- 18.Count the total number of employees.
 - 19.Find the minimum salary in department ID 2.
 - 20.Show the number of employees in each department.
-

◆ E. JOIN Queries

- 21.Write a query to display employee names along with their department names.
 - 22.Use LEFT JOIN to show all departments and any employees.
 - 23.Use RIGHT JOIN to show all employees and their department names.
 - 24.Perform a FULL OUTER JOIN on Employees and Departments tables.
 - 25.Show all departments that have no employees assigned (using JOIN).
-

◆ F. Subqueries

- 26.Find employees who earn more than the average salary.
- 27.Select employees whose salary equals the maximum salary in their department.
- 28.List employees who work in the 'IT' or 'HR' department using a subquery.
- 29.Display employee names where department name is 'Finance' using subquery.
- 30.Show departments where the maximum salary exceeds 60000 (using correlated subquery).