

SQL QUERIES

1. `SELECT * FROM Emp WHERE DeptNo IN (10, 30);`
2. `SELECT D.DeptNo, D.Dname, D.Loc, COUNT(E.EmpNo) AS NumEmployees FROM
Dept D JOIN Emp E ON D.DeptNo = E.DeptNo GROUP BY D.DeptNo, D.Dname,
D.Loc HAVING COUNT(E.EmpNo) > 1;`
3. `SELECT * FROM Emp WHERE Ename LIKE 'S%';`
4. `SELECT * FROM Emp WHERE DATEDIFF(CURDATE(), Hire_Date) > 730;`
5. `SELECT EmpNo, REPLACE(Ename, 'a', '#') AS Replaced_Name FROM Emp;`
6. `SELECT E.Ename AS Employee_Name, M.Ename AS Manager_Name
FROM Emp E LEFT JOIN Emp M ON E.Mgr = M.EmpNo;`
7. `SELECT D.Dname AS Department_Name, SUM(E.Sal) AS Total_Salary
FROM Dept D JOIN Emp E ON D.DeptNo = E.DeptNo GROUP BY D.Dname;`
8. `SELECT E.*, D.Dname, D.Loc FROM Emp E LEFT JOIN Dept D ON
E.DeptNo = D.DeptNo;`
9. `UPDATE Emp SET Sal = Sal * 1.10;`
10. `DELETE FROM Emp WHERE DeptNo IN (SELECT DeptNo FROM Dept WHERE Loc =
'Chennai');`
11. `SELECT E.Ename, (E.Sal + COALESCE(E.Commission, 0)) AS Gross_Salary
FROM Emp E;`
12. `ALTER TABLE Emp MODIFY Ename VARCHAR(250);`
13. `SELECT NOW();`
14. `CREATE TABLE STUDENT (
 StudentID INT PRIMARY KEY,
 Name VARCHAR(100),
 Age INT,
 Program VARCHAR(50),
 GPA DECIMAL(3, 2));`

15. SELECT COUNT(*) AS Num_Employees FROM Emp WHERE Sal > 10000;
16. SELECT MIN(Sal) AS Min_Salary, MAX(Sal) AS Max_Salary, AVG(Sal) AS Avg_Salary
FROM Emp;
17. SELECT D.Loc, COUNT(E.EmpNo) AS Num_Employees
FROM Dept D LEFT JOIN Emp E ON D.DeptNo = E.DeptNo GROUP BY D.Loc;
18. SELECT Ename FROM Emp ORDER BY Ename DESC;
19. CREATE TABLE EMP_BKP AS SELECT * FROM Emp;
20. SELECT CONCAT(LEFT(Ename, 3), '_', Sal) AS Name_Salary FROM Emp;
21. SELECT * FROM Emp WHERE Ename LIKE 'S%';
22. SELECT * FROM Emp WHERE DeptNo IN (SELECT DeptNo FROM Dept WHERE Loc =
'Bangalore');
23. SELECT * FROM Emp WHERE Ename REGEXP '^[A-K].*';
24. SELECT E.* FROM Emp E JOIN Emp M ON E.Mgr = M.EmpNo WHERE M.Ename =
'Stefen';
25. SELECT M.Ename AS Manager_Name, COUNT(E.EmpNo) AS Num_Employees FROM
Emp M LEFT JOIN Emp E ON M.EmpNo = E.Mgr GROUP BY M.EmpNo ORDER BY
Num_Employees DESC LIMIT 1;
26. SELECT E.*, D.Dname AS Department_Name, M.Ename AS Manager_Name FROM
Emp E JOIN Dept D ON E.DeptNo = D.DeptNo LEFT JOIN Emp M ON E.Mgr =
M.EmpNo ORDER BY E.Sal DESC LIMIT 1 OFFSET 1;
27. SELECT E.*, D.Dname AS Department_Name FROM Emp E JOIN Dept D ON
E.DeptNo = D.DeptNo WHERE E.EmpNo IN (SELECT DISTINCT Mgr FROM Emp WHERE
Mgr IS NOT NULL);

28. SELECT E.*, D.Dname AS Department_Name, DATEDIFF(CURDATE(), E.Hire_Date) AS Total_Experience FROM EMP E JOIN Dept D ON E.DeptNo = D.DeptNo WHERE E.EmpNo IN (SELECT DISTINCT Mgr FROM Emp WHERE Mgr IS NOT NULL);
29. SELECT E.*, D.Dname AS Department_Name FROM Emp E JOIN Dept D ON E.DeptNo = D.DeptNo WHERE E.EmpNo IN (SELECT DISTINCT Mgr FROM Emp WHERE Mgr IS NOT NULL) AND E.Commission < 1000 AND D.Loc = 'Delhi';
30. SELECT E.*, D.Dname AS Department_Name FROM Emp E JOIN Dept D ON E.DeptNo = D.DeptNo WHERE E.Hire_Date < (SELECT Hire_Date FROM Emp WHERE Ename = 'Martin') ORDER BY E.Hire_Date;