

#### Assignment 4 -

- 1)SELECT EmpNo, Ename, Sal, Hire\_Date, Commission, DeptNo, Mgr  
FROM Emp  
WHERE DeptNo IN (10, 30);
- 2)SELECT D.DeptNo, D.Dname, D.Loc  
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 EmpNo, Ename, Sal, Hire\_Date, Commission, DeptNo, Mgr  
FROM Emp  
WHERE Ename LIKE 'S%';
- 4)SELECT EmpNo, Ename, Sal, Hire\_Date, Commission, DeptNo, Mgr  
FROM Emp  
WHERE DATEDIFF(CURDATE(), Hire\_Date) > 730;
- 5)SELECT EmpNo, REPLACE(Ename, 'a', '#') AS Ename, Sal, Hire\_Date, Commission,  
DeptNo, Mgr  
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.EmpNo, E.Ename, E.Sal, E.Hire\_Date, E.Commission, D.Dname AS  
Department\_Name, D.Loc AS Department\_Location  
FROM Emp E  
LEFT JOIN Dept D ON E.DeptNo = D.DeptNo;
- 9)UPDATE Emp  
SET Sal = Sal \* 1.10; -- Increase salary by 10%
- 10)DELETE FROM Emp  
WHERE DeptNo IN (  
SELECT DeptNo  
FROM Dept  
WHERE Loc = 'Chennai'  
);
- 11)SELECT Ename AS Employee\_Name, (Sal + IFNULL(Commission, 0)) AS Gross\_Salary  
FROM Emp;
- 12)ALTER TABLE Emp  
MODIFY COLUMN Ename VARCHAR(250);
- 13)SELECT GETDATE() AS CurrentDateTime;
- 14)CREATE TABLE STUDENT (  
StudentID INT PRIMARY KEY,  
FirstName VARCHAR(50),  
LastName VARCHAR(50),  
DateOfBirth DATE,  
GPA DECIMAL(3, 2)  
);

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15)SELECT COUNT(*) AS NumberOfEmployees
    FROM Emp
    WHERE Sal > 10000;

16)SELECT
    MIN(Sal) AS MinimumSalary,
    MAX(Sal) AS MaximumSalary,
    AVG(Sal) AS AverageSalary
    FROM Emp;

17)SELECT Loc AS Location, COUNT(*) AS NumberOfEmployees
    FROM Dept
    GROUP BY Loc;

18)CREATE TABLE EMP_BKP AS
    SELECT * FROM EMP;

19)SELECT CONCAT(LEFT(Ename, 3), ' - ', Sal) AS NameAndSalary
    FROM Emp;

20)SELECT EmpNo, Ename, Sal, Hire_Date, Commission, DeptNo, Mgr
    FROM Emp
    WHERE Ename LIKE 'S%';

21)SELECT EmpNo, Ename, Sal, Hire_Date, Commission, DeptNo, Mgr
    FROM Emp
    WHERE Ename LIKE 'S%';

22)SELECT EmpNo, Ename, Sal, Hire_Date, Commission, DeptNo, Mgr
    FROM Emp
    WHERE DeptNo IN (
        SELECT DeptNo
        FROM Dept
        WHERE Loc = 'Bangalore'
    );

23)SELECT EmpNo, Ename, Sal, Hire_Date, Commission, DeptNo, Mgr
    FROM Emp
    WHERE Ename LIKE '[A-K]%' ;

24)SELECT E.EmpNo, E.Ename, E.Sal, E.Hire_Date, E.Commission, E.DeptNo, E.Mgr
    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 Number_of_Employees
    FROM Emp E
    JOIN Emp M ON E.Mgr = M.EmpNo
    GROUP BY M.Ename
    HAVING COUNT(E.EmpNo) = (
        SELECT MAX(EmployeeCount)
        FROM (
            SELECT COUNT(EmpNo) AS EmployeeCount
            FROM Emp
            GROUP BY Mgr
        ) AS Subquery
    );

26)SELECT E.EmpNo, E.Ename AS Employee_Name, E.Sal AS Employee_Salary,
    D.Dname AS Department_Name, D.Loc AS Department_Location,
    M.Ename AS Manager_Name
    FROM Emp E
    JOIN Dept D ON E.DeptNo = D.DeptNo

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LEFT JOIN Emp M ON E.Mgr = M.EmpNo
WHERE E.Sal = (
  SELECT MAX(Sal)
  FROM Emp
  WHERE Sal < (
    SELECT MAX(Sal)
    FROM Emp
  )
);

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27)SELECT E.EmpNo, E.Ename AS Manager_Name, E.Sal AS Manager_Salary,
      D.Dname AS Department_Name, D.Loc AS Department_Location
      FROM Emp E
      JOIN Dept D ON E.EmpNo = D.Mgr;

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28)SELECT M.EmpNo AS Manager_EmpNo,
      M.Ename AS Manager_Name,
      M.Sal AS Manager_Salary,
      D.Dname AS Department_Name,
      D.Loc AS Department_Location,
      SUM(YEAR(NOW()) - YEAR(E.Hire_Date)) AS Total_Experience
      FROM Emp M
      JOIN Dept D ON M.EmpNo = D.Mgr
      LEFT JOIN Emp E ON D.DeptNo = E.DeptNo
      GROUP BY M.EmpNo, M.Ename, M.Sal, D.Dname, D.Loc;

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29)SELECT E.EmpNo, E.Ename, E.Sal, E.Hire_Date, E.Commission, E.DeptNo
      FROM Emp E
      JOIN Dept D ON E.DeptNo = D.DeptNo
      WHERE E.EmpNo IN (
        SELECT Mgr
        FROM Emp
        WHERE Commission < 1000
      )
      AND D.Loc = 'Delhi';

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30)SELECT EmpNo, Ename, Sal, Hire_Date, Commission, DeptNo, Mgr
      FROM Emp
      WHERE Hire_Date < (
        SELECT Hire_Date
        FROM Emp
        WHERE Ename = 'Martin'
      );

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