Task-5-1 - Study of Sol Joins:

→ Joins are used to combine data from two (or) more tables based on are I related Column.

Types of soil joins (with simple examples using Employee and Department New employee):-

Timer Join: - Returns only matching vows from both tables

SELECT C. EmpName, e. DPt, d. Manager Name. FROM Employee e INNER JOIN Department of ON C. Dept = d. Dept;

- (2) LEFT JOIN: Returns all rows from the left table and matching rows from the right table (NOLLift not match).

  SELECT C. EmpName, c. Dept, n. city From Employee c

  LEFT JOIN New Employee n. ON c. EmpID = n. EmpID;
- BRIGHT JOIN: Returns all vows from the right table, and matching rows from the left.

SELECT C. EmpName, rocity & FROM Employee C RIGHT DOIN New Employee of ON C. EmpID = no EmpID;

- A FULL CUTER JOIN: SELECT E. EMPNAME, n. city FROM Employee

  B LEFT JOIN NEW Employee n ON e. EmpID = n. EmpID UNION

  SELECT E. EmpName, n. city From Employee e RIGHT JOIN

  New Employee n ON e. EmpID = n. EmpID;
- (5) CROSS JOIN: Cartesian product (every row with every row)
  SELECT e. Emp. Name, n. Emp Name FROM Employeee CROSS JOIN
  New Employee n;

## TASK - 5.2 - Performing Advanced Quevy Processing:

- (1) Find top 3 highest Paid Employees.
  - SELECT Emphane, Salary FROM Employee ORDER BY Salary DESC LIMITS;
- 2) Find the department with the highest overage Salary SELECT Dept FROM Employee GROUP By DPT ORDER BY AVG (Salary) DECS LIMIT 1;
- 3) Find employees coho have the Same Salary as some one else (duplicate Salaries).

SELECT Emphane, Salary FROM Employee COHERE Salary
IN( SELECT Salary FROM Employee GROUP BY Salary HAVI-NG COUNT (\*)>1);

- Find employees who earn more than all HR employees

  SELECT EmpName, Salary FROM Employee WHERE

  Salary > ALL (SELECT Salary FROM Employee COHERE Dept

  ='HR!);
- 1 List departments and their highest paid employee.

SELECT e. Dept 19-EmpName, e. Salary FROM Employee & WHERE Salary = (SELECT MAX (Salary) FROM Employee & COHERE Dept = e. Dept);

(3) Find employees who joined earliest in each department

SELECT e. Dept ie. Employee Name, e. Joining date FROM Employee

e COHERE Joining Date = (SELECT & MIN (Joining Date)

FROM Employee COHERE Dept = (e. Dept);

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EX NO. (5)	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1-1
RECORD (5)	15
TOTAL (20)	1
SIGN WITH T	15/9/25

RESULT: Hence, Study of SOL Joins and performing Advanced Overy processing done successfully.

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