

TASK: 5

DATE: 9/1/25

WRITING JOIN QUERIES, EQUIVALENT, AND/OR RECURSIVE QUERIES

Aim :- To implement and execute JOIN queries equivalent queries and recursive queries using 3 universal database scenarios.

Procedure: * create database and tables

* Insert Sample data

* write SQL queries using diff. types of JOINS

* Implement recursive query.

* Display results

Step 1: Types of Join: 1) Simple 2) self 3) outer

1) Simple Join:

(i) Equi-join:

query: select * from employee, night_shift where employees
empid = night_shift.empid;

output:

empid	emp_name	company	salary	age	Join_date
10	Venu	HCL	1000000	21	2018-07-06
11	shyam	LIC	1111	20	2020-07-06
101	srikrishna	CTI	22201000	20	2021-08-01

ii) Non-equi join:

Select * from employees, night_shift where employees.age
< night_shift.age;

Inner join :-

Select emp-name, n.age from employees e

INNER JOIN NIGHT-shift n on e.empid = n.empid;

output:

emp-name	age
Venu	21
shyam	20
Srikrishna	20

Outer Join:

Left Join: Select e.emp-name from employee e Left Join
night-shift n on e.empid = n.empid;

output:

emp name
Venu
shyam
Srikrishna
pavan

Right Join: Select .empid, n.age from employees Right Join
night-shift n on e.empid = n.empid.

output :-

emp id	age
10	21
11	20
101	20
NULL	19

→ FULL OUTER JOIN (Not in mySQL):-

Select e.empname, n.company from employees e FULL OUTER
JOIN night-shift n on e.empid = n.empid;

OUTPUT:

empname	company
Venu	HCL
Shyam	LIC
Srikrishna	CII
pavan	NULL
Bunny	NULL
NULL	Google
NULL	microsoft

→ EQUIVALENT QUERIES;

Select e.empname, n.Salary from employees e join night-
shift n on e.empid = n.empid;

output:

empname	Salary
Venu	10000000
Shyam	1111
Srikrishna	201

→ RECURSIVE QUERY;

WITH recursive comp as (select emp name, empid from employees
UNION select empname, n. empid from employees,
JOIN comp e ON e.empid = n.empid)

select * from comp;

output:

empname	empid
Venu	10
Jhigama	11
Srikrishna	101

Result: The implementation of JOIN, equivalent and recursive queries using employee details database has been completed successfully.

VEL TECH	
EX NO.	57
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	2
RECORD (5)	13
TOTAL (20)	10
S.S.I WITH DATE	

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