

07/07/25 TASK:-5

Wrt. writing join queries, equivalent,
AND/OR recursive queries.

Appt:-

To implement and execute join queries
equivalent queries and recursive queries using
university database scenario.

Procedure:-

- * create database and tables
- * Insert sample data
- * Wrt. sql queries using diff type of JOINS
- * Implement recursion ~~on~~ queries
- Display result

Step 1:-

Types of JOINS:-

1) Simple 2) Self 3) outer

① Simple Join:-

i) equi-join:-

query:- select * from employee, right-shift
where employees.empid = right-
shift.empid;

Output:-

empid	emp-name	company	Salary	age	Join-date
10	Thamer	HCL	100000	21	2018-07-01
11	Anand	LPC	111100	20	2020-07-06
101	Gopal	CTP	10000	20	2021-08-01

ii) Non-equi join:-

select * from employee, right-shift where
employees.age < right-shift.age;

Inner join:-

Select ~~e.emp_name~~ age from employee e

Inner join right - shift n on e.empid = n.empid

output:-

emp_name	age
Thammy	21
Anand	20
Gopal	20

Outer join:-

→ left join:-

Select e.emp_name from employee e
left join right - shift n on e.empid = n.empid

Output:-

emp_name
Thammy
Anand
Gopal
Govind

Right Join:-

Select e.empid, n age from employee e
Right join right - shift n on e.empid = n.empid

output:-

empid	age
10	21
11	20
101	20
Null	19

→ Full Outer join (not in my col):-

select e.empname, n.company from employee

^c full outer join right-shift n on e.empid = n.empid;

output:-

empname	Company.
Thameer	HCL
Anand	LDC
Gopal	CTD
Gokind	NULL
Ramya	NULL
NULL	Google
NULL	Microsoft

→ Equivalent Queries:-

select e.empname, n.salary from
employees e join right-shift n on
e.empid = n.empid;

Output:-

empname	salary.
Thameer	100000
Anand	111100
Gopal	10000

→ Recursive Query:-
 with recursive comp as (select empname,
 empid from employees union
 select e.empname, n.empid from employee

Join comp c on e.empid = n.empid)

select * from comp;

Output:-

empname	empid
Shameer	10
Anand	11
Gopal	101

VEL TECH	
EX NO.	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	
TOTAL (20)	14
DATE WITH DATE	

Result:-

The implementation of JOIN equivalent and recursive queries using employedetails database has been completed successfully.