5/2/25 TASK-5

JOIN QUERIES, EQUIVALENT AND RECURSIVE QUERIES

Aim: To implement and execute Join Queries, Equivalent queries and Recursive Queries.

procedure:
- create the data base and table.
- Insert same dates.
- write sql Queries using different types of JOINS to get the same result.
- Implement a Recursive Query using with RECURSIVE
- Display results and verify correctness.

Different types of SQL JOINS.

(INNER) JOIN:

table SELECT column-name(s) From table)
Inner JOIN table 2 on table1. column-names
table2 column-name;

- LEFT counter JOIN:
SELECT column-name(s) FROM table1
LEFT JOIN table2 ON Table1-column-names
table2 column-name,

- Right (outer) JOIN:
SELECT column-name(s) Form table1
Right JOIN table2 ON table1 column-
name =
table2 column-
name;

- Right (outer) JOIN:
SELECT column-name (.

FULL couter) JOIN!

FULL OUTER JOIN table 2 on table column-
                        name2 table 2-column
                        name;'

1. JOIN Queries (ALL TYPES).
   CREATE TABLE Departments (
       DEPT ID INT PRIMARY KEY,
       DEPT NAME VARCHAR (50)) ;'

2. CREATE TABLE Patients (
       Pat ID INT PRIMARY KEY,
       Pat Name VARCHAR (50),'
       DEPT ID INT
       FOREIGN KEY (DEPT ID) REFERENCES
                                Department
                                (DEPT ID)
   );

CREATE TABLE BILLS (
       BILL ID INT PRIMARY KEY,
       Pat ID INT
       Bill Amount DECIMAL (10,2),
       FOREIGN KEY (Pat ID) REFERENCES
                                patient (Pat ID)
   );

CREATE TABLE Referrals (
       Referral ID INT PRIMARY KEY,
                    Pat
       Referring n ID INT,
       Reffered pat ID INT,
       FOREIGN KEY (Referring Pat ID)
                                REFERENCES
                                patients (Pat ID)th
   );

Departments.
   DEPT ID   DEPT Name

patName	Dept Name
Alice	Cardiology
Alice	onology
Alice	pediatria
Bob	Cardiology
Bob	onology
Bob	pediatria
Charlie	Cardiology
Charlie	Onology
Charlie	pediatria
David	Cardiology
David	onology
David	pediatrics

Self JOIN:

Query,

SELECT A PATNAME AS patient, P2 patName as patients P1.DEPTS ID

FROM Patients P1
JOIN patients P2 ON P1 DEPT ID = P2.DEPT ID
WHERE P1. Pat ID < P2- Pat ID.

Initial	referal patient	Initial reference	referend
1	3	Alice	Charlic
3	4	Charlie	David
1	4	Alice	David

VELTECH	
EX No.	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	
SIGN WITH DATE	

Result: Thus the Implementation of JOIN Queries equivalent queries and Recursive Queries executed successfully

B.   Define the prob

clearly state the