8-09-25

Task-5 - Writting Joins queries equivalent to AND/OR Recursive QUERIES

Aim
Title:- Implement of different types of Joins and recursive queries

* A Sac Join Combing records from two tables
* A Join locates related column values in the two tables
* A query.

PROCEDURE

1. Create the different of student
2. Insert the values into tables
3. perform join operation
4. perform Equivalent & Recursive query
5. Display result

```
Create Table DEPARTMENT (
        Dept-ID INT primary key
        DT - Name VARCHAR(30);

CREATE Table Student (
    St
```

```
STU-ID INT PRIMARY KEY,
STU-Name VARCHAR (30),
AGE INT,
DEPT-ID INT,

FOREIN key (DEPT-ID) REFERENCES
DEPARTMENT (DEPT-ID));
```

```
INSERT INTO DEPARTMENT VALUES
        (201, 'Computer science'),
        (202, 'Electronics'),
        (203, 'Mechanical');
```

Insert INTO Student values.

1) (Ravi, 20, 201),
2) (Sheena, 22, 201),
3) (Amit, 19, 2021)
4) (priya, 24, 203),
5) (kiran, 23, 201);

Select * from DEPERTMENT 4;

	DEPT ID	DEPT Name
1	201	Computer
2	202	ELE.Electronics
3	203	Mechanical

Select From Student;

	STU ID	Name	Age	DEPT ID
1	1	Ravi	20	201
2	2	Sneha	22	201
3	3	Amit	19	202
4	4	Priya	24	203
5	5	kiran	23	201

Select SName S.Age DPERIMent Name
From Student
INNER JOIN DEPERIMEID;
--- InnerJOIN

	Name	AGE	DEPT Name
1	Ravi	20	Computer Sceience
2	Sneha	22	Computer Sceience
3	AMit	24	ECCAtronic
4	priya	24	Mechanical
5	kiran	23	Computer Sci.

--- LEFT OUTER JOIN
SECICET S.Name, S.AGE, D.DEPARTName
FROM STUDENTS.

left JOIN DEPERTMENT 4D
ONs DEPTID = DEPT ID;

	Name	AGE	DEPT Name
1	Ravi	20	computer Science
2	Sneha	22	computer Science
3	Amit	19	electronics
4	priya	24	mechanics
5	kiran	23	computer Science

Select S.Name, S.Age, D.DEPERTMENTName
From Students
RIGHT JOIN DEPERTMENTID
ONS.DEPT.ID 2D.DEPTID;

	Name	AGE	DEPTName
1	Ravi	20	computer Science
2	Sneha	22	Computer Science
3	kiran	23	computer Science
4	Amit	19	Electronics
5	priya	24	Mechanical.

Select TOP 3S. IName, SAGE, D.DEPT NAME
From StudentUS
Full outER JOIN DEPERTMENT UP

ONS. DEPTID : DEPT 'ID;

	Name	AGE	DEPT Name
1	Ravi	20	computerscire
2	Sneha	22	computerscience
3	AMit	19	Electronics

---- EQUIVALENT QUERIES.

--- Using Join

Select S.Name, S.AGE

From Student US

JOIN DEPERTMENT DONS . DEPTID : DEPTID

Where D.DEPERTName = Computer Science

	Name	AGE
1	Ravi	20
2	Sneha	22
3	Kiran	23

--- RECURSIVE Queries

WITH COUNT

SELECT 1AS N

UNION All

SELECT N+1

From COUNTE

WHERE N<5

Select * From COUNTCTE :

	N
1	1
2	2
3	3
4	4
5	5

VEL TECH	
EX No.	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (25)	25
SIGN WITH DATE	

8/9/25

VEL TECH	
EX NO.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result:

Thus Implementation of Join queries Equivalent and Recursive Queries has Successfully executed and verified.