

9/9/25

Task-5

WRITING JOIN QUERIES, EQUIVALENT AND/OR RECURSIVE QUERIES :-

Aim:- To implement and execute JOIN Queries equivalent Queries, and recursive Queries using mobile database.

INNER JOIN:

Return records that matching values in both tables

```
SELECT m.phone_id, m.brand, m.model
       s.ram, s.storage, s.battery
FROM Mobile Phone
INNER JOIN Phone Spec R.
```

Phone_id	brand	model	price
1	Realme	14pro	30,000
2	Redmi	10pro	15,000
3	Vivo	13pro	25,000

INNER JOIN Phone specifications
ON. m.phone_id = s.phone_id;

Phone_id	ram	storage	battery
1	16GB	256GB	5000mah
2	8GB	128GB	4500mah
3	12GB	256GB	5500mah

LEFT (outer) JOIN:- Return all records from the right table.

```
SELECT m.phone_id, m.brand, m.model,
       s.ram, s.storage, s.battery
FROM mobile purchase
Phone specification on. m.phone_id
= s.phone_id;
```


Phone_id	brand	model	Price
1	redme	14pro	30,000
2	Redmi	10pro	15,000
3	Vivo	13 pro	25,000

ram	Storage	battery
16GB	256GB	5000mAh
8GB	128GB	4500mAh
12GB	256GB	5500mAh

RIGHT (outer) Join:- Return all Records from the right table and the matched records from the left table.

SELECT m.phone_id, m.brand, m.model,
s.ram s.storage, s.battery

FROM mobile phones m

RIGHT JOIN phone Specifications
ON m.phone_id = s.phone_id;

Phone_id	brand	model	price	ram	Storage	battery
1	Redme	14pro	30,000	12GB	256GB	5000mAh
2	Redmi	10pro	15,000	8GB	128GB	4500mAh
3	Vivo	73pro	25,000	12GB	256GB	5000mAh

FULL OUTER JOIN:- Return all records when there is a match in either left or Right table
SELECT, m.phone_id, m.brand, m.model,
s.ram, s.storage, s.battery.

FROM Mobile Phones M

Full Outer Join phone specification on
m.phone_id = s.phone_id;

Phone-id	brand	model	price	ram	storage	battery
1	Redme	14 pro	30,000	16GB	256GB	5000
2	Redmi	10 pro	15,000	8GB	128GB	4500
3	Vivo	13 pro	25,000	12GB	256GB	5500

3. Join Queries

INNER JOIN

SELECT m.Phone_id m.brand . m.model s.ram
s storage , s.battery

FROM Mobile Phone m

INNER Join Phone specification on .m.phone
_id = s.Phone_id;

b) LEFT JOIN

SELECT m.phone-id m.brand . m.model s.ram
s.storage s.battery

FROM mobile Phones.m

LEFT JOIN Phone specification ON m.phone_Id
= s Phone-id;

c) RIGHT JOIN

SELECT m.phone-id, m.brand , m.model
s.ram, s.storage , s.battery

FROM mobile phones m

RIGHT mobile phone specification
ON m.phone-id = s.phone-id;

VEL TECH	
EX No.	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	13
SIGN WITH DATE	

Result:- Thus the implementation of SQL commands using points and recursive Queries are executed successfully.