Date: 9/9/25 Taskit WRITING JON OVERIES, EQUIVALENT I AND LOR RECURSIVE QUERIES.

Aimir To implement and execute JOIN queres equivalent que les, and recursive queries using Mobile database

INNER JION;

Returns, records that matching values in both tables.

Select m. Phone_id, m. brand, m. model, g. ram, S. Storage, S. battery. PROM Mobile Phones/m

INNER JOIN Phone Specif Phone-id Price brand model Modern 301000 Realme Redmi robus 17,000 \mathcal{E} **^i∨o** T3 pro. 52000

INNER JOHN Phone Specifications, on. m. phone _id = s. phone _id;

			4	
Phone_id	ram	storage	baffeey	
	16 CB	226 MB	9000 meh	
2	8GB	128 G B	1 100 meh	
3	1208	226NB	damod?Z	
	Phone_id 2 3	1 16GB 2 8GB	2 8CB 128CB	

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then Apple spinals

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E. C. I	you by:		AND RESIDENCE OF THE PERSON OF
short-id	mi	meki	Me and the second
100mm	restruc	Julia	20,000
intens ?	Redmi	10/111	1000
S Williams	VIVO	(ME)	21.00
1,641)	Sprall	pattery	
2011	DARZE	- 3000 Viet	
Sis	25201	famous	
1208	24324	2100 web	particular and a second a second and a second a second and a second and a second and a second and a second an

SIOHL (ONES) 20 In; your off second from the right table, and the muched record from the left te ble.

School in these ig is soul in works.

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s ecceptable short most most marg 16 grada 2 = bi- snorta, or 40

1						
phoneid	brand	model	price	ran	storage	bottery
	Contract Con	1110466	Pile		Market Colores	The second secon
1	realme	labo	301000	16 CB	25643	2000
2	Redmi	15(5)	30100			man
11 3		1000	121000	<i>'8</i> 48	17.000	
3	NO				12800	map
	160,	TBPW	27,000	1203	256GB	Moone
—	The state of the s		, -0-			

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, g. battery.

PROM Mobile Phones M

M-byourig = 8-byone-ig;

phone-id	brand.	modes	Price	ran	Storage	balter
1	telme		30,000	184R	2 56NB	coor
2 8	Redmi	10000	1000	808	12803	uno
3	VIVO	J3 Pro	25,000	BUB	226NB	1100

1) Jon Queses.

CREATE TABLES

Create Tables Customer?

Cust 10 Int PRIMARY KGY;

CUST DAMP VARCHAR (50) NOT NULL;

Créale Hable Mobile (Mobile 10 INT PRIMARY 1864; Brand VARCHAR (50) NOT NULL;

```
MOPPI NEWSCHER (20) MOLLINGTI,
   Price DECIMAL (1012) CHECK (Price . 300 001);
),
 CREATE TABLE purchase C
   Pulchase 10 INT PRIMARY KEY;
     CUST 10 NOT NOH;
   Mobile 10 NOT NHLY;
 Buantity INT CHECK (Quantity 20);
 Puedhase Bate DATE DEFAULT CURRENT DATE;
   FORGIN KEY (WST 10);
   BELEBENCES. Mopiles (mopileso)
);
  CREATE TABLE Payment C
      Payment 10 INT PRIMARY 16441
      purchase 10 INT UNDUE,
     AMOUNT DECIMAL (1017) DOL MATH,
      Payment Date DATE DEFAULT,
     CURRENT_ DATE,
  Payment method VARCHAR (20)
   CHECK (payment preshod INT 1001.1 aid!
            wetbanking; , (100');
        PORIEGO KEY (pue chase 10)
    RERENCES . Purches . (punpare 10)
  );
```

2. 1DERT SAMPLE DATA. Insect into Mobile values (1, Android items); (101, Realme 1), (102, 'Redmis), (1081'. vivoi) insect INTO. Mobile Value payment values C1, 1 Realme 1; (01), (2, 'Redmi; 102) (3, 1. vivo', 101), (u, 'poco', 103), (5, 1900; 104); -- Invalid & phone Dfor OUTERJOIN example INSERT INTO Review values. CC1, 1 Database System; 101); C'cs', Crood product & worth it; (01); C'c31. - product its good 1.1021, C'cu' afford to buy it 103); INSCRI INTO Payrotror Values (30,000;15000) 25000, 2027-07-191 1 Rao (realed. (ompleted!); Result: Record insected Succentally.

3. JOIN QUERIES ,

(b) HUNCE JOIN

Serect miphoneid -, m. brand, m. model, s-tam. 8. storage, s. battery

from mobile phone m

MNER JOIN Phone specification op. m. phone-itsphone-id;

(B) LEFT JOIN

Street in phone id, mibrand, mimodel, vitam, storage, s. battery.

FROM Mobile phonesim

LEFT JOIN phone specification on. m. phone-id.

(G) BICHT ZOINS

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

From mobile phones m

RIGHT JOIN Phone specification
ON m. Phone _id = s. phone _id;

(4) FULL ODIER JOIN;

SELECT: m.phone-id 1 m. board 1 m. madel, 3. ram. s. storage 15. battery

PROM Mobile Phones M

PULL DUTER JOW-Phone . SPECIFICATIONS . DN

4. Equivalent Queoses SELECTE: Sta-Mobile Dame, d.M. Model Name from Mobile phone JOIN Brand ON s. . Phone 10 = M. Phone 10; - Osing Subsquary select Mobile Dame, CSELECT Brandpame FROM ·BRand B. WHERE M. PhoneID = S. PhoneID) As Model Dame mobile.phone; Purchases Hreearchy 5) RECURINE QUERY (Cocase Hamasely) WITH RECORCIVE purchases Ask. SELECT Paymentin, principalis Dressed. phone FROM Brevergerites GOICHS SELECT P. payment 10, c. precinquid FROM · Prerequisites p. JOIN payment Hierarchy (ON P. Prested 10= payment 10 SELECT & FROM , payment Hierarchy VEL TECH EX NO. PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) OTAL (20) Resyst? Thus, the implementation of 1997 Using Johns and recursive queries are enceuted

Successfully.