Tasks: WRITING QUERIES EQUIVALENT: AND 6 F RECURSIVE Aim: To implement and execute Join queies equivalent queies and recursive queries using Mobile database INNER JOIN: Return record that matching value in bothlably SELECT m. Phone id, m. brand, m. mock, s. Jan, S. Storage, S. battery FROM Hobilephones m INNER JOIN Phone Spea model Brand Phone-id Porice 14 PNO realme 30,000 16 P30 15,000 Redmi 2 251000 T3 P 20 V. U0 3 INNER JOIN Phone specifications. ON. N. phone id = s. phone id; storage Phone-id Ram buttery 5000 mAh 256G1R 1661B I 4000 mah (28 GB 868 5500 mAD 2564B 12 GB LEFT (Outer) Join Return all records from thrtable and the matched recordy from the right table SELLECT m-phone-id, m. borand, m. model, s. ram s. storage, S. battery. FROM - Mobile phones LEFT JOIN - phone . specification s. ON . M. Phone _ id = S - Rhope-id prand model pou'ce Phone-id 14 020 realmo 30,000 15,000 10 P 70 redmi 25,000 13020 3 V: VO

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FULL (OUTER) JOIN: Return all records when there ix a matchin either left to Right table SELECT: m. phone_id, m. b. rand, m. model, s. ram, S. Storage: s. battery						
FROM Mobile phones M FULL OUTER JOIN phone Specifications. SON						
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UJOIN Queies						
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CREATE TABLES						

Create Tables Customeral CUSTID IN PRIMARY KEY: COUL Norme VARCHAR(SO) NOTNUCL 1: create table Mobiler Mobile IDINT PRIMORY LEY: Brand VAR (HAE(S) NOTNULL) Modal VARCHARCSONOTNILL PMICE DECIMAL((0,2) (WCKPNICE: 30,000) 5% " peate Table purchase puschase ID INT PRIMORYKEY! CUST ID NOT NULL; Mobile ID NOT NOW Quantity INT CHECK (Quantity 20); Purchase Date DATE DEFAULT CURPENTDATE FORGIN KEY (CUST ID); REFERENCES Mobiles (Mobile 149) 1: (reate table payments payment IDINT PRIMARY KEY: purchase ID INT prique, A MOUNT DECIMAL L'OIZ NOTNULL: Payment Date PATE DEFAULT; (URPENT - DATE: Payment method VARCHAR (20) CHECK (payment method IN+ (UP) ard; Net banking; (100); FORIEGN KEY (purchasely PEFEDENCES purchase (punchas e 10) 1>

2. INSERT SAMPLE DATA Insert into mobile value Android items): (101, realme) (lol, pedmil) (101, Vivo)); insert IN To Mobile value Payment value (v, 1 Rodme); (01), (2, bedmi'; low)} (3) Vivo'; (01); (u, 'poco'; (03); (SI '1000' 10W; -- Invalid phoneID for OUTER JOIN enample INSERT INTO De, Valuy (ci' Databas &ysteen, toi); C'cz', Good product & worthit; 101); ('(3'; P moduct its good', 102)) c'cu! afford to buy it 103); INSERT INTO Pay her value (30,000,15000,2500, 2025 -08-19) IPOW (reward completed.); Rindt: Record insurfed Successfully 3. JOIN QUERIES: a) INNER JOIN SELE CT m. phone_id, m. prand, m. model, s. tram, 5 y storage, s. but gry FROM mobilephone m INNER JOIN shore specification on M. phone id: s. phone id:

6) LEFT JOIN SELECT m. phone_id, M. borand, M. model, S. vam, Storage, 5. butlery. FROM Mobile phones. m CETT JOIN Phone Specification ON M. Phone _id = s. phone-id; ORIGHT JOIN SELECT M. phone-id, m. brand, m. model, s-ran, s-storge, 5. bollery from mobile phone on RIGHAT JUIN Phone Specification ON miphoneogéd = s. phone id; d) FULL OPTER JOIN; SELECT: M. phone-id, m.b. rand, m-model, S. van. S. storage sibattery/ From mobile phones m FOLL OUTER JOIN Phone specifications on m. phone -id = 5. phonesol. 4) Equivalent Queries SE LECTS: Mobile Nane, Model Nane, from Mobile phone JOIN Brand ON phone ID - m- Phone 10; Using schalling SELECT Mobile Kane CSELECT Exampleme FROM Brand B WHRE M. PhoNID=S. Phone ID) As model Wang IROM Mobile Phone:

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PERFORMANCE (5) RESULT AND ANALYSIS (5)

VIVA VOCE (5) RECORD (5) **TOTAL (20)** SIGN WITH DATE