JOIN STATEMENT, SET OPERATIONS..

1. CREATE TABLE ITEMS(ITEM\_ID INT PRIMARY KEY,ITEM\_NAME VARCHAR(50),CATEGORY VARCHAR(50),PRICE INT,IN\_STOCK INT,CONSTRAINT STOCK\_CHECK CHECK(IN\_STOCK>=0));

CREATE TABLE CUSTOMER(CUSTOMER\_ID INT PRIMARY KEY,CUSTOMER\_NAME VARCHAR(50),ADDRESS VARCHAR(50),STATE VARCHAR(50));

CREATE TABLE ORDERS(ORDER\_ID INT PRIMARY KEY,ITEM\_ID INT,CUSTOMER\_ID INT,QUANTITY INT,ORDER\_DATE DATE, FOREIGN KEY (ITEM\_ID) REFERENCES ITEMS(ITEM\_ID), FOREIGN KEY (CUSTOMER\_ID) REFERENCES CUSTOMER(CUSTOMER\_ID));

CREATE TABLE DELIVERY(DELIVERY\_ID INT PRIMARY KEY, CUSTOMER\_ID INT, ORDER\_ID INT, FOREIGN KEY (CUSTOMER\_ID) REFERENCES CUSTOMER(CUSTOMER\_ID), FOREIGN KEY (ORDER\_ID) REFERENCES ORDERS(ORDER\_ID));

INSERT INTO ITEMS VALUES(1,'BREAD','FOOD',30,100);

INSERT INTO ITEMS VALUES(2,'JUICE','DRINKS',40,30);

INSERT INTO ITEMS VALUES(3,'SOAP','BEUTY',50,150);

INSERT INTO ITEMS VALUES(4,'PLATE','UTENSIL',250,60);

INSERT INTO ITEMS VALUES(5,'CAKE','FOOD',90,10);

INSERT INTO ITEMS VALUES(6,'SAMASUN GALAXY','PHONE',15000,10);

INSERT INTO ITEMS VALUES(7,'DRUMS','INSTRUMENT',25000,5);

INSERT INTO CUSTOMER VALUES(1,'MIKE','DELHI','HARYANA');

INSERT INTO CUSTOMER VALUES(2,'BARRY','MUMBAI','MAHARASTHRA');

INSERT INTO CUSTOMER VALUES(3,'IRIS','PALA','KERALA');

INSERT INTO CUSTOMER VALUES(4,'JOHN','BANGLORE','KARNATAKA');

INSERT INTO CUSTOMER VALUES(5,'DASH','DELHI','HARYANA');

INSERT INTO CUSTOMER VALUES(6,'JACK','MUMBAI','MAHARASTHRA');

INSERT INTO ORDERS VALUES(1,2,1,2,'14-10-19');

INSERT INTO ORDERS VALUES(2,3,2,5,'1-08-19');

INSERT INTO ORDERS VALUES(3,5,4,1,'10-03-19');

INSERT INTO ORDERS VALUES(4,4,5,5,'3-12-19');

INSERT INTO ORDERS VALUES(5,1,3,3,'25-5-19');

INSERT INTO ORDERS VALUES(6,1,4,5,'10-03-19');

INSERT INTO ORDERS VALUES(7,6,4,1,'10-03-19');

INSERT INTO DELIVERY VALUES(1,3,5);

INSERT INTO DELIVERY VALUES(2,2,2);

INSERT INTO DELIVERY VALUES(3,5,4);

INSERT INTO DELIVERY VALUES(4,4,3);

INSERT INTO DELIVERY VALUES(5,1,1);

2. SELECT \* FROM CUSTOMER INNER JOIN ORDERS ON CUSTOMER.CUSTOMER\_ID = ORDERS.CUSTOMER\_ID;

2. SELECT \* FROM CUSTOMER WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM ORDERS);

CUSTOMER\_ID CUSTOMER\_NAME ADDRESS SSTATE

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1 MIKE DELHI HARYANA

2 BARRY MUMBAI MAHARASTHRA

4 JOHN BANGLORE KARNATAKA

5 DASH DELHI HARYANA

3 IRIS PALA KERALA

3. SELECT \* FROM CUSTOMER WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM DELIVERY);

CUSTOMER\_ID CUSTOMER\_NAME ADDRESS STATE

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3 IRIS PALA KERALA

2 BARRY MUMBAI MAHARASTHRA

5 DASH DELHI HARYANA

4 JOHN BANGLORE KARNATAKA

1 MIKE DELHI HARYANA

4. SELECT ORDER\_DATE FROM ORDERS WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM CUSTOMER WHERE CUSTOMER\_NAME LIKE 'J%');

ORDER\_DATE

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10-03-19

10-03-19

10-03-19

5. SELECT ITEM\_NAME,PRICE FROM ITEMS WHERE ITEM\_ID IN(SELECT ITEM\_ID FROM ORDERS WHERE CUSTOMER\_ID IN(SELECT CUSTOMER\_ID FROM CUSTOMER WHERE CUSTOMER\_NAME LIKE 'JOHN'));

ITEM\_NAME PRICE

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BREAD 30

CAKE 90

SAMASUN GALAXY 15000

6. SELECT \* FROM CUSTOMER WHERE CUSTOMER\_ID NOT IN (SELECT CUSTOMER\_ID FROM DELIVERY WHERE ORDER\_ID IN(SELECT ORDER\_ID FROM ORDERS WHERE ORDER\_DATE >'01-01-2019'));

CUSTOMER\_ID CUSTOMER\_NAME ADDRESS STATE

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6 JACK MUMBAI MAHARASTHRA

7. SELECT ITEM\_ID FROM ITEMS WHERE ITEM\_ID NOT IN(SELECT ITEM\_ID FROM ORDERS);

ITEM\_ID

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7

8. SELECT CUSTOMER\_NAME FROM CUSTOMER WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM DELIVERY WHERE ORDER\_ID IN(SELECT ORDER\_ID FROM ORDERS));

CUSTOMER\_NAME

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MIKE

BARRY

IRIS

JOHN

DASH

9. SELECT CUSTOMER\_NAME FROM CUSTOMER WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM ORDERS WHERE ORDER\_ID NOT IN(SELECT ORDER\_ID FROM DELIVERY));

CUSTOMER\_NAME

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JOHN

11. SELECT \* FROM CUSTOMER WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM ORDERS WHERE ITEM\_ID IN(SELECT ITEM\_ID FROM ITEMS WHERE PRICE>5000));

CUSTOMER\_ID CUSTOMER\_NAME ADDRESS STATE

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4 JOHN BANGLORE KARNATAKA

12. SELECT CUSTOMER\_NAME,ADDRESS FROM CUSTOMER WHERE CUSTOMER\_ID NOT IN (SELECT CUSTOMER\_ID FROM ORDERS WHERE ITEM\_ID IN(SELECT ITEM\_ID FROM ITEMS WHERE CATEGORY LIKE 'PHONE'));

CUSTOMER\_NAME ADDRESS

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MIKE DELHI

BARRY MUMBAI

IRIS PALA

DASH DELHI

JACK MUMBAI

13.