1BM19CS219 MAHANTESH GATTINA

create database `order processing database`;

CREATE TABLE CUSTOMER(

CUST INT NOT NULL,

CNAME VARCHAR(20) NOT NULL,

CITY VARCHAR(20) NOT NULL,

PRIMARY KEY(CUST)

);

CREATE TABLE ORDERS(

ORDER\_ID INT NOT NULL,

ODATE DATE NOT NULL,

CUST INT NOT NULL,

ORD\_AMT INT NOT NULL,

PRIMARY KEY(ORDER\_ID),

FOREIGN KEY(CUST) REFERENCES CUSTOMER(CUST) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE ITEM(

ITEM\_ID INT NOT NULL,

UNIT\_PRICE INT NOT NULL,

PRIMARY KEY(ITEM));

ALTER TABLE ORDERS ENGINE=InnoDB;

ALTER TABLE ITEM ENGINE=InnoDB;

CREATE TABLE ORDER\_ITEM(

ORDER\_ID INT NOT NULL,

ITEM\_ID INT,

QTY INT NOT NULL,

FOREIGN KEY(ORDER\_ID) REFERENCES ORDERS(ORDER\_ID) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(ITEM\_ID) REFERENCES ITEM(ITEM) ON DELETE SET null ON UPDATE CASCADE);

CREATE TABLE WAREHOUSE(

WAREHOUSE INT NOT NULL,

CITY VARCHAR(20) NOT NULL,

PRIMARY KEY(WAREHOUSE));

CREATE TABLE SHIPMENT(

ORDER\_ID INT NOT NULL,

WAREHOUSE INT NOT NULL,

SHIP\_DATE DATE NOT NULL,

FOREIGN KEY(ORDER\_ID) REFERENCES ORDERS(ORDER\_ID) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(WAREHOUSE) REFERENCES WAREHOUSE(WAREHOUSE) ON DELETE CASCADE ON UPDATE CASCADE);

INSERT INTO CUSTOMER

VALUES

(1,'ABC','BLORE'),

(2,'DEF','KOLAR'),

(3,'GHI','BLORE'),

(4,'JKL','CHITTOR'),

(5,'MNO','BALLARI');

INSERT INTO ORDERS

VALUES

(1,'06-01-01',2,5000),

(2,'06-04-26',3,2500),

(3,'06-04-27',3,1000),

(4,'06-04-30',5,1000),

(5,'06-05-25',1,5000);

INSERT INTO ITEM

VALUES

(1,2500),

(2,5000),

(3,1000),

(4,500),

(5,200);

INSERT INTO ORDER\_ITEM

VALUES

(1,2,1),

(1,4,1),

(2,1,1),

(3,5,5),

(4,2,2);

INSERT INTO WAREHOUSE

VALUES

(1,'BLORE'),

(2,'KOLAR'),

(3,'CHITTOR'),

(4,'KOLAR'),

(5,'BALLARI');

INSERT INTO SHIPMENT

VALUES

(1,1,'06-04-30'),

(2,2,'06-04-29'),

(3,2,'06-04-24'),

(4,5,'06-04-30'),

(5,3,'06-06-01');

SELECT C.CNAME AS CUSTNAME,COUNT(O.ORDER\_ID) AS OFORDERS,AVG(O.ORD\_AMT) AS AVG\_ORDER\_AMT FROM CUSTOMER C, ORDERS O WHERE C.CUST = O.CUST GROUP BY C.CUST

CUSTNAME OFORDERS AVG\_ORDER\_AMT

ABC 1 5000.0000

DEF 1 5000.0000

GHI 2 1750.0000

MNO 1 1000.0000

SELECT DISTINCT ORDER\_ID FROM SHIPMENT WHERE WAREHOUSE IN (SELECT WAREHOUSE FROM WAREHOUSE WHERE CITY = 'BALLARI')

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INSERT INTO ITEM

VALUES

(10, 500),

(11,300);

INSERT INTO ORDER\_ITEM

VALUES

(2,10,1),

(3,11,2);

SELECT \* FROM ITEM

DELETE FROM ITEM WHERE ITEM\_ID = 11

SELECT \* FROM ITEM

ITEM\_ID UNIT\_PRICE ITEM\_ID UNIT\_PRICE

1 2500

2 5000

3 1000

4 500

5 200

10 500

11 300

1 2500

2 5000

3 1000

4 500

5 200

10 500

SELECT \* FROM ORDER\_ITEM

ORDER\_ID ITEM\_ID QTY

1 2 1

1 4 1

2 1 1

3 5 5

4 2 2

2 10 1

3

NULL

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