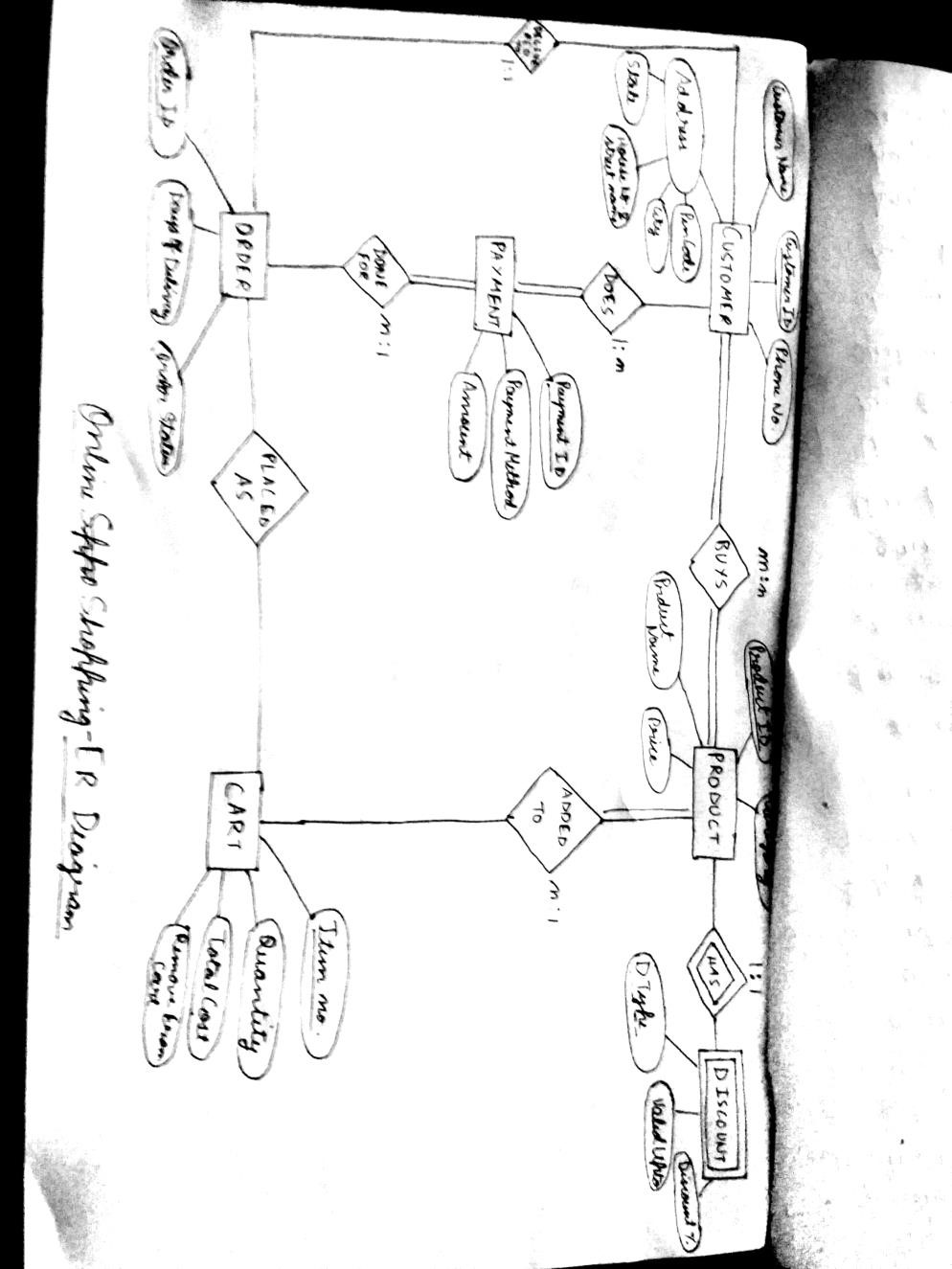
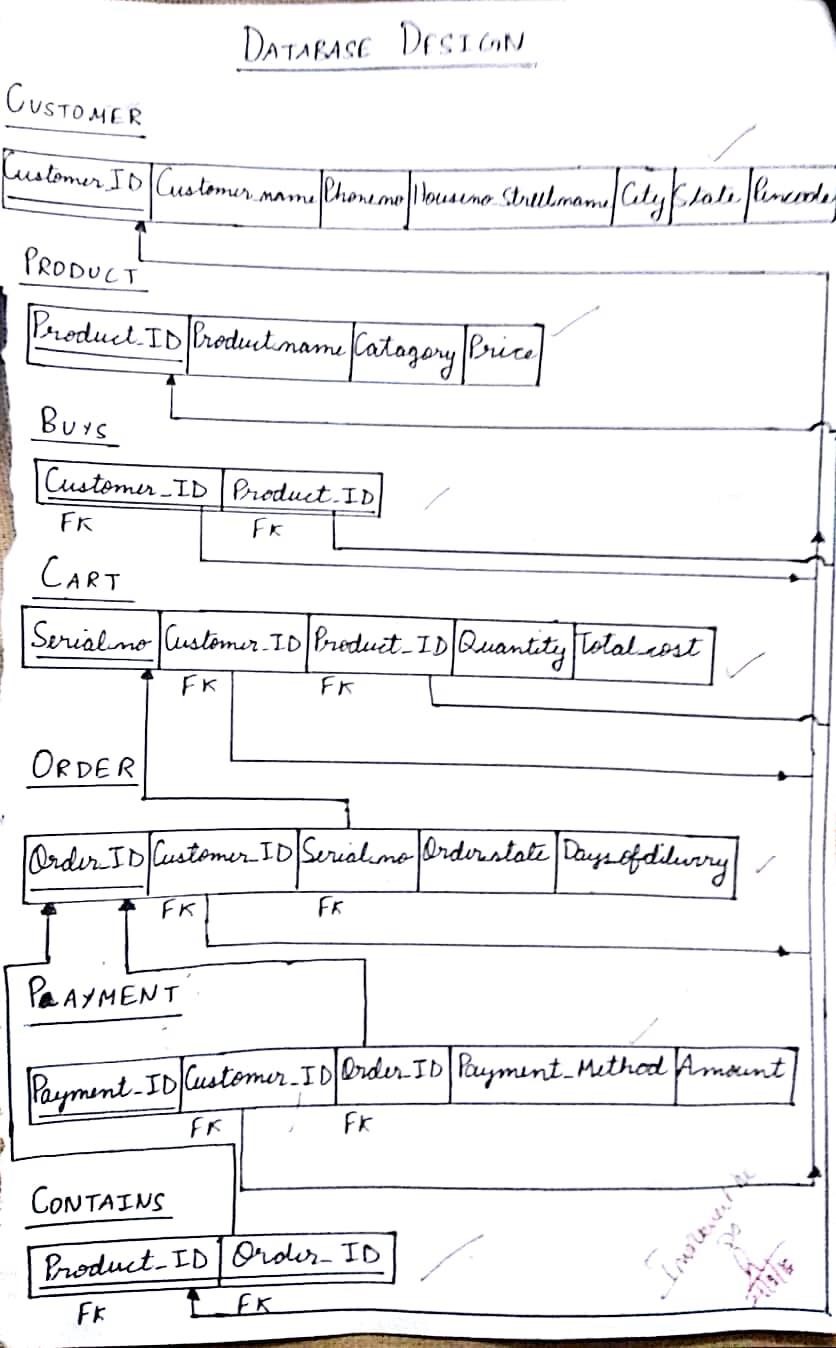
ER Diagram



***(MAPPING)***



***(IMPLEMENATION)***

***1) CREATE TABLES AND INSERT-***

1)

**CREATE TABLES-**

SQL> CREATE TABLE CUSTOMER(CUSTOMERID NUMBER(8),CUSTOMERNAME VARCHAR(20),PHONENO

NUMBER(10),HSTREETNAME VARCHAR(30),CITY VARCHAR(20),STATE VARCHAR(15),PINCODE NUMBER(8));

Table created.

2)

SQL> CREATE TABLE PRODUCT(PRODUCTID NUMBER(8) CONSTRAINT PROPK PRIMARY

KEY,PRODUCTNAME VARCHAR(20),CATEGORY VARCHAR(10),PRICE NUMBER(6));

Table created.

3)

SQL> CREATE TABLE BUY(CUSTOMERID NUMBER(8),PRODUCTID NUMBER(8));

Table created.

4)

SQL> CREATE TABLE CART

2 (SERIALNO NUMBER(2),CUSTOMERID NUMBER(8),PRODUCTID NUMBER(8),QUANTITY

NUMBER(2),TOTAL\_COST NUMBER(6));

Table created.

5)

SQL> CREATE TABLE ORDERS(ORDERID NUMBER(8),CUSTOMER NUMBER(8),SERIALNO

NUMBER(2),ORDERSTATE VARCHAR(20),DAYS\_OF\_DELIVERY NUMBER(2));

Table created.

6)

SQL> CREATE TABLE PAYMENT(PAYMENTID NUMBER(8),CUSTOMERID NUMBER(8),ORDERID

NUMBER(8),PAYMENT\_METHOD VARCHAR(20),AMOUNT NUMBER(8));

Table created.

7)

SQL> CREATE TABLE CONTAIN(PRODUCTID NUMBER(8),ORDERID NUMBER(8));

Table created.

**INSERT:**

## 1)

SQL> INSERT INTO CUSTOMER VALUES(14253601,'SANYAM SRIVASTAVA',9956424646,'NAYAK

APPARTMENT,MEDICAL ROAD','GORAKHPUR','UTTAR PRADESH',273001);

1 row created.

SQL> INSERT INTO CUSTOMER VALUES(14253602,'RISHIRAJ MALIK',992590046,'20 P NEW BUS STAND

ROAD','VELLORE','TAMIL NADU',252045);

1 row created.

SQL> INSERT INTO CUSTOMER VALUES(14253603,'SHROUD CHAURASIA',9925977061,'ANDHERI

EAST','MUMBAI','MAHARASHTRA',212045);

1 row created.

SQL> INSERT INTO CUSTOMER VALUES(14253604,'KENNY

S',8873910510,'GOMTINAGAR','LUCKNOW','UTTAR PRADESH',273001);

1 row created.

SQL> INSERT INTO CUSTOMER VALUES(14253605,'PARVEZ FERNANDIZ',8878010510,'HOUSE NO-10 RED BEACH EAST','','GOA',124668);

1 row created.

## 2)

SQL> INSERT INTO PRODUCT VALUES(74859601,'REDMI NOTE 4 COVER','ACCESSORY',300);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859602,'SANDISK PENDRIVE','GADGET',599);

1 row created.

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859604,'RAYBAN GOGGLES','FASHION',3000);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859605,'BOXERS','FASHION',220);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859606,'LENOVO 320P','GADGET',45000);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859607,'DAIRYMILK SILK','EDABLES',85);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859608,'SKULL SKIN LAPTOP','ACCESSORY',255);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859609,'DENIM JACKET','FASHION',1999);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859610,'NIKE RUNNERS','FOOTWEAR',3999);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859611,'CONCEPT OF PHYSICS','BOOKS',300);

1 row created.

SQL> INSERT INTO PRODUCT VALUES(74859612,'METALLICA TSHIRT','FASHION',800);

1 row created.

## 3)

SQL> INSERT INTO BUY VALUES(14253601,74859603);

1 row created.

SQL> INSERT INTO BUY VALUES(14253601,74859610);

1 row created.

SQL> INSERT INTO BUY VALUES(14253602,74859601);

1 row created.

SQL> INSERT INTO BUY VALUES(14253602,74859603);

1 row created.

SQL> INSERT INTO BUY VALUES(14253603,74859603);

1 row created.

SQL> INSERT INTO BUY VALUES(14253603,74859604);

1 row created.

SQL> INSERT INTO BUY VALUES(14253605,74859608);

1 row created.

SQL> INSERT INTO BUY VALUES(14253605,74859609);

1 row created.

SQL> INSERT INTO BUY VALUES(14253605,74859610);

1 row created.

SQL> INSERT INTO BUY VALUES(14253605,74859612);

1 row created.

## 4)

SQL> INSERT INTO CART VALUES(1,14253601,74859602,1,599);

1 row created.

SQL> INSERT INTO CART VALUES(3,14253601,74859603,1,1200);

1 row created.

SQL> INSERT INTO CART VALUES(2,14253601,74859610,1,4000);

1 row created.

SQL> INSERT INTO CART VALUES(4,14253602,74859601,2,600);

1 row created.

SQL> INSERT INTO CART VALUES(5,14253602,74859603,1,1200);

1 row created.

SQL> INSERT INTO CART VALUES(6,14253603,74859603,1,1200);

1 row created.

SQL> INSERT INTO CART VALUES(7,14253603,74859604,1,3000);

1 row created.

SQL> INSERT INTO CART VALUES(8,14253605,74859608,1,255);

1 row created.

SQL> INSERT INTO CART VALUES(9,14253603,74859609,1,1999);

1 row created.

SQL> INSERT INTO CART VALUES(10,14253603,74859610,1,4000);

1 row created.

SQL> INSERT INTO CART VALUES(11,14253603,74859612,2,1600); 1 row created.

## 5)

SQL> INSERT INTO ORDERS VALUES(93827101,14253601,1,'SHIPPED',2);

1 row created.

SQL> INSERT INTO ORDERS VALUES(93827102,14253601,3,'DELIVERED',2);

1 row created.

SQL> INSERT INTO ORDERS VALUES(93827103,14253602,5,'PROCESSING',4);

1 row created.

SQL> INSERT INTO ORDERS VALUES(93827104,14253603,6,'SHIPPED',3);

1 row created.

SQL> INSERT INTO ORDERS VALUES(93827105,14253605,8,'SHIPPED',3);

1 row created.

SQL> INSERT INTO ORDERS VALUES(93827106,14253605,9,'DISPATCHED',1);

1 row created.

## 6)

SQL> INSERT INTO PAYMENT VALUES(79461301,14253601,93827101,'COD',599);

1 row created.

SQL> INSERT INTO PAYMENT VALUES(79461302,14253601,93827102,'COD',4000);

1 row created.

SQL> INSERT INTO PAYMENT VALUES(79461303,14253602,93827103,'CREDIT CARD',1200);

1 row created.

SQL> INSERT INTO PAYMENT VALUES(79461304,14253603,93827104,'CREDIT CARD',1200);

1 row created.

SQL> INSERT INTO PAYMENT VALUES(79461305,14253605,93827105,'COD',255);

1 row created.

SQL> INSERT INTO PAYMENT VALUES(79461306,14253605,93827106,'COD',1999);

1 row created.

## 7)

SQL> INSERT INTO CONTAIN VALUES(74859602,93827101);

1 row created.

SQL> INSERT INTO CONTAIN VALUES(74859603,93827103);

1 row created.

SQL> INSERT INTO CONTAIN VALUES(74859603,93827104);

1 row created.

SQL> INSERT INTO CONTAIN VALUES(74859608,93827105);

1 row created.

SQL> INSERT INTO CONTAIN VALUES(74859609,93827106);

1 row created.

SQL> INSERT INTO CONTAIN VALUES(74859610,93827102);

1 row created.

**SELECT:**

1)

SELECT \* FROM CUSTOMER;

CUSTOMERID CUSTOMERNAME PHONENO HSTREETNAME

---------- -------------------- ---------- ------------------------------

CITY STATE PINCODE

-------------------- --------------- ----------

1. SANYAM SRIVASTAVA 9956424646 NAYAK APPARTMENT,MEDICAL ROAD GORAKHPUR UTTAR PRADESH 273001

1. RISHIRAJ MALIK 992590046 20 P NEW BUS STAND ROAD

VELLORE TAMIL NADU 252045

1. SHROUD CHAURASIA 9925977061 ANDHERI EAST

MUMBAI MAHARASHTRA 212045

CUSTOMERID CUSTOMERNAME PHONENO HSTREETNAME

---------- -------------------- ---------- ------------------------------

CITY STATE PINCODE

-------------------- --------------- ----------

1. KENNY S 8873910510 GOMTINAGAR

LUCKNOW UTTAR PRADESH 273001

1. PARVEZ FERNANDIZ 8878010510 HOUSE NO-10 RED BEACH EAST

GOA 124668

2)

SQL> SELECT \* FROM PRODUCT;

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. REDMI NOTE 4 COVER ACCESSORY 300
2. SANDISK PENDRIVE GADGET 599
3. SKULLCANDY 2.0 HEADPHONES 1200
4. RAYBAN GOGGLES FASHION 3000
5. BOXERS FASHION 220
6. LENOVO 320P GADGET 45000
7. DAIRYMILK SILK EDABLES 85
8. SKULL SKIN LAPTOP ACCESSORY 255
9. DENIM JACKET FASHION 1999
10. NIKE RUNNERS FOOTWEAR 3999
11. CONCEPT OF PHYSICS BOOKS 300

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. METALLICA TSHIRT FASHION 800

12 rows selected.

3)

SQL> SELECT \* FROM BUY;

CUSTOMERID PRODUCTID

---------- ----------

14253601 74859603

1. 74859610
2. 74859601
3. 74859603
4. 74859603

14253603 74859604

14253605 74859608

14253605 74859609

14253605 74859610

14253605 74859612

1. rows selected.

4)

SQL> SELECT \* FROM CART;

SERIALNO CUSTOMERID PRODUCTID QUANTITY TOTAL\_COST

---------- ---------- ---------- ---------- ----------

* 1. 14253601 74859602 1 599

3 14253601 74859603 1 1200

* 1. 14253601 74859610 1 4000
  2. 14253602 74859601 2 600
  3. 14253602 74859603 1 1200
  4. 14253603 74859603 1 1200
  5. 14253603 74859604 1 3000
  6. 14253605 74859608 1 255
  7. 14253603 74859609 1 1999
  8. 14253603 74859610 1 4000 11 14253603 74859612 2 1600

1. rows selected.

5)

SQL> SELECT \* FROM ORDERS;

ORDERID CUSTOMER SERIALNO ORDERSTATE DAYS\_OF\_DELIVERY

---------- ---------- ---------- -------------------- ---------------- 93827101 14253601 1 SHIPPED 2

1. 14253601 3 DELIVERED 2
2. 14253602 5 PROCESSING 4
3. 14253603 6 SHIPPED 3
4. 14253605 8 SHIPPED 3
5. 14253605 9 DISPATCHED 1

6 rows selected.

6)

SQL> SELECT \* FROM PAYMENT;

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

1. 14253601 93827101 COD 599
2. 14253601 93827102 COD 4000
3. 14253602 93827103 CREDIT CARD 1200
4. 14253603 93827104 CREDIT CARD 1200
5. 14253605 93827105 COD 255
6. 14253605 93827106 COD 1999

6 rows selected.

7)

SQL> SELECT \* FROM CONTAIN;

PRODUCTID ORDERID

---------- ----------

1. 93827101
2. 93827103

74859603 93827104

1. 93827105
2. 93827106 74859610 93827102 6 rows selected.

***2) ALTER, DELETE AND UPDATE:***

ALTER:

SQL> ALTER TABLE CUSTOMER

2 ADD CONSTRAINT CUSPK PRIMARY KEY(CUSTOMERID);

Table altered.

SQL> ALTER TABLE BUY

2 ADD CONSTRAINT BUYPK PRIMARY KEY(PRODUCTID,CUSTOMERID);

Table altered.

SQL> ALTER TABLE CART

2 ADD CONSTRAINT CARTPK PRIMARY KEY(SERIALNO);

Table altered.

SQL> ALTER TABLE ORDERS

2 ADD CONSTRAINT ORDERPK PRIMARY KEY(ORDERID);

Table altered.

SQL> ALTER TABLE PAYMENT

2 ADD CONSTRAINT PAYMENTPK PRIMARY KEY(PAYMENTID);

Table altered.

SQL> ALTER TABLE CONTAIN

2 ADD CONSTRAINT CONTAINPK PRIMARY KEY(PRODUCTID,ORDERID);

Table altered.

DELETE:

SQL> DELETE PRODUCT

2 WHERE PRODUCTID=74859611;

1 row deleted.

SQL> SELECT \* FROM PRODUCT;

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. REDMI NOTE 4 COVER ACCESSORY 300
2. SANDISK PENDRIVE GADGET 599
3. SKULLCANDY 2.0 HEADPHONES 1200
4. RAYBAN GOGGLES FASHION 3000
5. BOXERS FASHION 220
6. LENOVO 320P GADGET 45000
7. DAIRYMILK SILK EDABLES 85
8. SKULL SKIN LAPTOP ACCESSORY 255
9. DENIM JACKET FASHION 1999
10. NIKE RUNNERS FOOTWEAR 3999

74859612 METALLICA TSHIRT FASHION 800

UPDATE:

SQL> UPDATE PRODUCT

2 SET PRICE=299 WHERE PRODUCTID=74859605;

1 row updated.

SQL> SELECT \* FROM PRODUCT;

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. REDMI NOTE 4 COVER ACCESSORY 300
2. SANDISK PENDRIVE GADGET 599
3. SKULLCANDY 2.0 HEADPHONES 1200
4. RAYBAN GOGGLES FASHION 3000
5. BOXERS FASHION 299
6. LENOVO 320P GADGET 45000
7. DAIRYMILK SILK EDABLES 85
8. SKULL SKIN LAPTOP ACCESSORY 255
9. DENIM JACKET FASHION 1999
10. NIKE RUNNERS FOOTWEAR 3999

74859612 METALLICA TSHIRT FASHION 800

11 rows selected.

***3)PRIMARY KEY AND FOREIGN KEY CONSTRAINT:***

PRIMARY KEY DONE BY ALTER,NOW FOREIGN KEY:

SQL> ALTER TABLE BUY

2 ADD CONSTRAINT CUSBUYFK FOREIGN KEY(CUSTOMERID) REFERENCES CUSTOMER(CUSTOMERID); Table altered.

SQL> ALTER TABLE BUY

2 ADD CONSTRAINT PROBUYFK FOREIGN KEY(PRODUCTID) REFERENCES PRODUCT(PRODUCTID);

Table altered.

SQL> ALTER TABLE CART

2 ADD CONSTRAINT PROCARTFK FOREIGN KEY(PRODUCTID) REFERENCES PRODUCT(PRODUCTID);

Table altered.

SQL> ALTER TABLE CART

2 ADD CONSTRAINT CUSCARTFK FOREIGN KEY(CUSTOMERID) REFERENCES CUSTOMER(CUSTOMERID);

Table altered.

SQL> ALTER TABLE ORDERS

2 ADD CONSTRAINT CUSORDERSFK FOREIGN KEY(CUSTOMER) REFERENCES CUSTOMER(CUSTOMERID);

Table altered.

SQL> ALTER TABLE ORDERS

2 ADD CONSTRAINT CARTORDERSFK FOREIGN KEY(SERIALNO) REFERENCES CART(SERIALNO);

Table altered.

SQL> ALTER TABLE PAYMENT

2 ADD CONSTRAINT CUSPAYSFK FOREIGN KEY(CUSTOMERID) REFERENCES CUSTOMER(CUSTOMERID); Table altered.

SQL> ALTER TABLE PAYMENT

2 ADD CONSTRAINT ORDERPAYSFK FOREIGN KEY(ORDERID) REFERENCES ORDERS(ORDERID);

Table altered.

SQL> ALTER TABLE CONTAIN

2 ADD CONSTRAINT PROCONTAINFK FOREIGN KEY(PRODUCTID) REFERENCES PRODUCT(PRODUCTID);

Table altered.

SQL> ALTER TABLE CONTAIN

2 ADD CONSTRAINT ORDERCONTAINFK FOREIGN KEY(ORDERID) REFERENCES ORDERS(ORDERID);

Table altered.

DESC COMMANDS ON TABLES:

SQL> DESC CUSTOMER;

Name Null? Type

----------------------------------------- -------- ----------------------------

CUSTOMERID NOT NULL NUMBER(8)

CUSTOMERNAME VARCHAR2(20)

PHONENO NUMBER(10)

HSTREETNAME VARCHAR2(30)

CITY VARCHAR2(20)

STATE VARCHAR2(15)

PINCODE NUMBER(8)

SQL> DESC PRODUCT;

Name Null? Type

----------------------------------------- -------- ----------------------------

PRODUCTID NOT NULL NUMBER(8)

PRODUCTNAME VARCHAR2(20)

CATEGORY VARCHAR2(10)

PRICE NUMBER(6)

SQL> DESC CART;

Name Null? Type

----------------------------------------- -------- ----------------------------

SERIALNO NOT NULL NUMBER(2)

CUSTOMERID NUMBER(8)

PRODUCTID NUMBER(8)

QUANTITY NUMBER(2)

TOTAL\_COST NUMBER(6)

SQL> DESC ORDERS;

Name Null? Type

----------------------------------------- -------- ----------------------------

ORDERID NOT NULL NUMBER(8)

CUSTOMER NUMBER(8)

SERIALNO NUMBER(2)

ORDERSTATE VARCHAR2(20)

DAYS\_OF\_DELIVERY NUMBER(2)

SQL> DESC PAYMENT;

Name Null? Type

----------------------------------------- -------- ---------------------------- PAYMENTID NOT NULL NUMBER(8)

CUSTOMERID NUMBER(8)

ORDERID NUMBER(8)

PAYMENT\_METHOD VARCHAR2(20)

AMOUNT NUMBER(8)

SQL> DESC BUY;

Name Null? Type

----------------------------------------- -------- ----------------------------

CUSTOMERID NOT NULL NUMBER(8)

PRODUCTID NOT NULL NUMBER(8)

SQL> DESC CONTAIN;

Name Null? Type

----------------------------------------- -------- ----------------------------

PRODUCTID NOT NULL NUMBER(8)

ORDERID NOT NULL NUMBER(8)

***4)SELECT WITH WHERE CLAUSE:***

1)

SQL> SELECT \* FROM CUSTOMER WHERE PINCODE=273001;

CUSTOMERID CUSTOMERNAME PHONENO HSTREETNAME

---------- -------------------- ---------- ------------------------------

CITY STATE PINCODE

-------------------- --------------- ----------

14253601 SANYAM SRIVASTAVA 9956424646 NAYAK APPARTMENT,MEDICAL ROAD GORAKHPUR UTTAR PRADESH 273001

14253604 KENNY S 8873910510 GOMTINAGAR

LUCKNOW UTTAR PRADESH 273001

2)

SQL> SELECT \* FROM PRODUCT WHERE CATEGORY='FASHION';

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. RAYBAN GOGGLES FASHION 3000
2. BOXERS FASHION 299

74859609 DENIM JACKET FASHION 1999

74859612 METALLICA TSHIRT FASHION 800

3)

SQL> SELECT \* FROM ORDERS WHERE ORDERSTATE='SHIPPED';

ORDERID CUSTOMER SERIALNO ORDERSTATE DAYS\_OF\_DELIVERY

---------- ---------- ---------- -------------------- ---------------- 93827101 14253601 1 SHIPPED 2

93827104 14253603 6 SHIPPED 3 93827105 14253605 8 SHIPPED 3

4)

SQL> SELECT \* FROM PAYMENT WHERE PAYMENT\_METHOD='COD';

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

1. 14253601 93827101 COD 599
2. 14253601 93827102 COD 4000
3. 14253605 93827105 COD 255
4. 14253605 93827106 COD 1999

5)

SQL> SELECT DISTINCT ORDERSTATE FROM ORDERS;

ORDERSTATE

--------------------

DISPATCHED

DELIVERED

SHIPPED

PROCESSING

***5) ANY 5 COMPARISION STATEMENTS:***

1)

SQL> SELECT \* FROM PAYMENT WHERE AMOUNT>500;

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

1. 14253601 93827101 COD 599
2. 14253601 93827102 COD 4000
3. 14253602 93827103 CREDIT CARD 1200
4. 14253603 93827104 CREDIT CARD 1200

79461306 14253605 93827106 COD 1999

2)

SQL> SELECT \* FROM PAYMENT WHERE AMOUNT<500;

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

79461305 14253605 93827105 COD 255

3)

SQL> SELECT \* FROM PAYMENT WHERE AMOUNT>=1200;

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

1. 14253601 93827102 COD 4000
2. 14253602 93827103 CREDIT CARD 1200
3. 14253603 93827104 CREDIT CARD 1200

79461306 14253605 93827106 COD 1999

4)

SQL> SELECT \* FROM CUSTOMER WHERE CITY IS NULL;

CUSTOMERID CUSTOMERNAME PHONENO HSTREETNAME

---------- -------------------- ---------- ------------------------------

CITY STATE PINCODE

-------------------- --------------- ----------

14253605 PARVEZ FERNANDIZ 8878010510 HOUSE NO-10 RED BEACH EAST

GOA 124668

5)

SQL> SELECT \* FROM PRODUCT WHERE PRICE BETWEEN 500 AND 3000;

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. SANDISK PENDRIVE GADGET 599
2. SKULLCANDY 2.0 HEADPHONES 1200
3. RAYBAN GOGGLES FASHION 3000

74859609 DENIM JACKET FASHION 1999

74859612 METALLICA TSHIRT FASHION 800

***6) ANY 5 AGGREGATE STATEMENTS:***

1)

SQL> SELECT COUNT(\*) FROM PRODUCT;

COUNT(\*)

----------

11

2)

SQL> SELECT COUNT(\*) FROM CUSTOMER;

COUNT(\*)

----------

5

3)

SQL> SELECT AVG(PRICE) FROM PRODUCT;

AVG(PRICE)

----------

5230.54545

4)

SQL> SELECT MIN(PRICE) FROM PRODUCT;

MIN(PRICE)

----------

85

5)

SQL> SELECT MAX(AMOUNT) FROM PAYMENT;

MAX(AMOUNT)

----------- 4000

***7) ANY 5 NUMBERIC FUNCTIONS:***

1)

SQL> SELECT PAYMENTID,AMOUNT, 40.4 COD\_CHARGE,AMOUNT+40.4 WITH\_COD\_CHARGE,FLOOR(AMOUNT+40.4) MRP FROM PAYMENT;

PAYMENTID AMOUNT COD\_CHARGE WITH\_COD\_CHARGE MRP

---------- ---------- ---------- --------------- ---------- 79461301 599 40.4 639.4 639

1. 4000 40.4 4040.4 4040
2. 1200 40.4 1240.4 1240
3. 1200 40.4 1240.4 1240
4. 255 40.4 295.4 295
5. 1999 40.4 2039.4 2039

6 rows selected.

2)

SQL> SELECT PAYMENTID,AMOUNT, 40.4 COD\_CHARGE,AMOUNT+40.4 WITH\_COD\_CHARGE,CEIL(AMOUNT+40.4) MRP FROM PAYMENT;

PAYMENTID AMOUNT COD\_CHARGE WITH\_COD\_CHARGE MRP

---------- ---------- ---------- --------------- ---------- 79461301 599 40.4 639.4 640

1. 4000 40.4 4040.4 4041
2. 1200 40.4 1240.4 1241
3. 1200 40.4 1240.4 1241
4. 255 40.4 295.4 296
5. 1999 40.4 2039.4 2040

3)

SQL> SELECT PRODUCTID,PRODUCTNAME,PRICE,EXP(PRICE) PRICE\_IN\_EXPONENT\_FORM FROM PRODUCT WHERE PRICE<290;

PRODUCTID PRODUCTNAME PRICE PRICE\_IN\_EXPONENT\_FORM

---------- -------------------- ---------- ----------------------

1. DAIRYMILK SILK 85 8.2230E+36
2. SKULL SKIN LAPTOP 255 5.560E+110

4)

PRODUCTID PRODUCTNAME PRICE PRICE\_IN\_COSINE\_VALUE

---------- -------------------- ---------- ---------------------

74859601 REDMI NOTE 4 COVER 300 -.02209662

74859605 BOXERS 299 -.85320439

1. DAIRYMILK SILK 85 -.98437664
2. SKULL SKIN LAPTOP 255 -.86230361

5)

SQL> SELECT PRODUCTID,PRODUCTNAME,PRICE,50.8 GIFT\_WRAP,FLOOR(PRICE+50.8) PRICE\_WITH\_WRAP FROM PRODUCT;

PRODUCTID PRODUCTNAME PRICE GIFT\_WRAP PRICE\_WITH\_WRAP

---------- -------------------- ---------- ---------- ---------------

1. REDMI NOTE 4 COVER 300 50.8 350
2. SANDISK PENDRIVE 599 50.8 649
3. SKULLCANDY 2.0 1200 50.8 1250
4. RAYBAN GOGGLES 3000 50.8 3050
5. BOXERS 299 50.8 349
6. LENOVO 320P 45000 50.8 45050
7. DAIRYMILK SILK 85 50.8 135
8. SKULL SKIN LAPTOP 255 50.8 305
9. DENIM JACKET 1999 50.8 2049
10. NIKE RUNNERS 3999 50.8 4049

74859612 METALLICA TSHIRT 800 50.8 850

11 rows selected.

6)

SQL> SELECT PRODUCTID,PRODUCTNAME,PRICE,50.8 GIFT\_WRAP,ROUND(PRICE+50.8) PRICE\_WITH\_WRAP FROM PRODUCT;

PRODUCTID PRODUCTNAME PRICE GIFT\_WRAP PRICE\_WITH\_WRAP

---------- -------------------- ---------- ---------- ---------------

1. REDMI NOTE 4 COVER 300 50.8 351
2. SANDISK PENDRIVE 599 50.8 650
3. SKULLCANDY 2.0 1200 50.8 1251
4. RAYBAN GOGGLES 3000 50.8 3051
5. BOXERS 299 50.8 350
6. LENOVO 320P 45000 50.8 45051
7. DAIRYMILK SILK 85 50.8 136
8. SKULL SKIN LAPTOP 255 50.8 306
9. DENIM JACKET 1999 50.8 2050
10. NIKE RUNNERS 3999 50.8 4050

74859612 METALLICA TSHIRT 800 50.8 851

***8) ANY 5 STRING FUNCTIONS :***

1)

SQL> SELECT CUSTOMERID,PHONENO,LOWER(CUSTOMERNAME) FROM CUSTOMER;

CUSTOMERID PHONENO LOWER(CUSTOMERNAME)

---------- ---------- --------------------

1. 9956424646 sanyam srivastava
2. 992590046 rishiraj malik
3. 9925977061 shroud chaurasia
4. 8873910510 kenny s
5. 8878010510 parvez fernandiz

2)

SQL> SELECT CUSTOMERNAME FROM CUSTOMER;

CUSTOMERNAME

--------------------

SANYAM SRIVASTAVA

RISHIRAJ MALIK

SHROUD CHAURASIA

KENNY S

PARVEZ FERNANDIZ

SQL> SELECT REPLACE(CUSTOMERNAME,'KENNY','CHAURASIA') ALTERED\_NAME FROM CUSTOMER;

ALTERED\_NAME

--------------------------------------------------------------------------------

SANYAM SRIVASTAVA

RISHIRAJ MALIK

SHROUD CHAURASIA

CHAURASIA S

PARVEZ FERNANDIZ

3)

SQL> SELECT CUSTOMERNAME FROM CUSTOMER;

CUSTOMERNAME

--------------------

SANYAM SRIVASTAVA

RISHIRAJ MALIK

SHROUD CHAURASIA

KENNY S

PARVEZ FERNANDIZ

SQL> SELECT RTRIM(CUSTOMERNAME,'A') FROM CUSTOMER;

RTRIM(CUSTOMERNAME,'

--------------------

SANYAM SRIVASTAV

RISHIRAJ MALIK

SHROUD CHAURASI

KENNY S

PARVEZ FERNANDIZ

4)

SQL> SELECT PRODUCTNAME FROM PRODUCT; PRODUCTNAME

--------------------

REDMI NOTE 4 COVER

SANDISK PENDRIVE

SKULLCANDY 2.0

RAYBAN GOGGLES

BOXERS

LENOVO 320P

DAIRYMILK SILK

SKULL SKIN LAPTOP

DENIM JACKET

NIKE RUNNERS

METALLICA TSHIRT

11 rows selected.

SQL> SELECT RPAD(PRODUCTNAME,20,'@') PRODUCTNAME,PRICE FROM PRODUCT;

PRODUCTNAME PRICE

-------------------- ----------

REDMI NOTE 4 COVER@@ 300

SANDISK PENDRIVE@@@@ 599

SKULLCANDY 2.0@@@@@@ 1200

RAYBAN GOGGLES@@@@@@ 3000

BOXERS@@@@@@@@@@@@@@ 299

LENOVO 320P@@@@@@@@@ 45000

DAIRYMILK SILK@@@@@@ 85

SKULL SKIN LAPTOP@@@ 255

DENIM JACKET@@@@@@@@ 1999

NIKE RUNNERS@@@@@@@@ 3999

METALLICA TSHIRT@@@@ 800

11 rows selected.

5)

SQL> SELECT LPAD(PRODUCTNAME,20,'@') PRODUCTNAME,PRICE FROM PRODUCT;

PRODUCTNAME PRICE

-------------------- ----------

@@REDMI NOTE 4 COVER 300

@@@@SANDISK PENDRIVE 599

@@@@@@SKULLCANDY 2.0 1200

@@@@@@RAYBAN GOGGLES 3000

@@@@@@@@@@@@@@BOXERS 299

@@@@@@@@@LENOVO 320P 45000

@@@@@@DAIRYMILK SILK 85

@@@SKULL SKIN LAPTOP 255

@@@@@@@@DENIM JACKET 1999

@@@@@@@@NIKE RUNNERS 3999

@@@@METALLICA TSHIRT 800

11 rows selected.

***9) ANY 5 DATE FUNCTIONS:***

## (FOR WRITING DATE FUNCTION, I WILL ADD A DATE COLOUMN IN TABLE ORDERS) ALTER TABLE ORDERS ADD(DOD DATE);

Table altered.

SQL> UPDATE ORDERS

2 SET DOD='11-JAN-18' WHERE SERIALNO=1;

1. row updated.

SQL> UPDATE ORDERS

1. SET DOD='13-DEC-18' WHERE SERIALNO=3;

1. row updated.

SQL> UPDATE ORDERS

1. SET DOD='13-NOV-18' WHERE SERIALNO=5;

1. row updated.

SQL> UPDATE ORDERS

1. SET DOD='23-NOV-18' WHERE SERIALNO=6;

1. row updated.

SQL> UPDATE ORDERS

1. SET DOD='24-DEC-18' WHERE SERIALNO=6;

1. row updated.

SQL> UPDATE ORDERS

1. SET DOD='30-OCT-18' WHERE SERIALNO=8; 1 row updated.

SQL> UPDATE ORDERS

2 SET DOD='30-OCT-18' WHERE SERIALNO=9;

1 row updated.

SQL> SELECT \* FROM ORDERS;

ORDERID CUSTOMER SERIALNO ORDERSTATE DAYS\_OF\_DELIVERY DOD

---------- ---------- ---------- -------------------- ---------------- ---------

1. 14253601 1 SHIPPED 2 11-JAN-18
2. 14253601 3 DELIVERED 2 13-DEC-18
3. 14253602 5 PROCESSING 4 13-NOV-18
4. 14253603 6 SHIPPED 3 24-DEC-18
5. 14253605 8 SHIPPED 3 30-OCT-18
6. 14253605 9 DISPATCHED 1 30-OCT-18

6 rows selected.

***NOW PERFORMING DATE OPERATIONS:***

1)

SQL> SELECT DOD,ADD\_MONTHS(DOD,2) FROM ORDERS;

DOD ADD\_MONTH

--------- ---------

11-JAN-18 11-MAR-18

13-DEC-18 13-FEB-19

13-NOV-18 13-JAN-19

24-DEC-18 24-FEB-19

30-OCT-18 30-DEC-18

30-OCT-18 30-DEC-18

6 rows selected.

2)

SQL> SELECT DOD,LAST\_DAY(DOD) FROM ORDERS;

DOD LAST\_DAY(

--------- ---------

11-JAN-18 31-JAN-18

13-DEC-18 31-DEC-18

13-NOV-18 30-NOV-18

24-DEC-18 31-DEC-18

30-OCT-18 31-OCT-18

30-OCT-18 31-OCT-18

6 rows selected.

3)

SQL> SELECT DOD,ROUND(DOD,'MON') FROM ORDERS;

DOD ROUND(DOD

--------- ---------

11-JAN-18 01-JAN-18

13-DEC-18 01-DEC-18

13-NOV-18 01-NOV-18

24-DEC-18 01-JAN-19

30-OCT-18 01-NOV-18

30-OCT-18 01-NOV-18

6 rows selected.

4)

SQL> SELECT DOD,TRUNC(DOD,'YEAR') FROM ORDERS;

DOD TRUNC(DOD

--------- ---------

11-JAN-18 01-JAN-18

13-DEC-18 01-JAN-18

13-NOV-18 01-JAN-18

24-DEC-18 01-JAN-18

30-OCT-18 01-JAN-18

30-OCT-18 01-JAN-18

6 rows selected.

5)

SQL> SELECT DOD,NEXT\_DAY(DOD,'TUESDAY') FROM ORDERS;

DOD NEXT\_DAY(

--------- ---------

11-JAN-18 16-JAN-18

13-DEC-18 18-DEC-18

13-NOV-18 20-NOV-18

24-DEC-18 25-DEC-18

30-OCT-18 06-NOV-18

30-OCT-18 06-NOV-18

6 rows selected.

***10) ANY 3 CONVERSION FUNCTION:***

1)

SQL> SELECT TO\_CHAR(DOD,'DDth MONTH YYYY') FROM ORDERS;

TO\_CHAR(DOD,'DDTHMO

-------------------

11TH JANUARY 2018

13TH DECEMBER 2018

13TH NOVEMBER 2018

24TH DECEMBER 2018

30TH OCTOBER 2018 30TH OCTOBER 2018

2)

SQL> SELECT TO\_CHAR(DOD,'MONTH DDth YY') FROM ORDERS;

TO\_CHAR(DOD,'MONT

-----------------

JANUARY 11TH 18

DECEMBER 13TH 18

NOVEMBER 13TH 18

DECEMBER 24TH 18

OCTOBER 30TH 18

OCTOBER 30TH 18

6 rows selected.

3)

AS I DON’T HAVE A STRING AS A NUMBER, I DID

SQL> SELECT TO\_NUMBER('68585484') FROM DUAL;

TO\_NUMBER('68585484')

--------------------- 68585484

4)

SQL> SELECT TO\_CHAR(DOD,'YYYY MONTH DDth') FROM ORDERS;

TO\_CHAR(DOD,'YYYYMO

-------------------

2018 JANUARY 11TH

2018 DECEMBER 13TH

2018 NOVEMBER 13TH

2018 DECEMBER 24TH

2018 OCTOBER 30TH 2018 OCTOBER 30TH

6 rows selected.

***11) THREE QUERIES BASED ON SET OPERATIONS:***

1) SQL> SELECT ORDERID FROM ORDERS UNION SELECT ORDERID FROM PAYMENT;

ORDERID

----------

93827101

93827102

93827103

93827104

93827105

93827106

6 rows selected.

2)

SQL> SELECT CUSTOMERID FROM CUSTOMER INTERSECT SELECT CUSTOMERID FROM PAYMENT;

CUSTOMERID

----------

14253601

14253602

14253603

14253605

3)

SQL> SELECT CUSTOMERID FROM CUSTOMER MINUS SELECT CUSTOMERID FROM PAYMENT;

CUSTOMERID

----------

14253604

***12) GROUP BY AND HAVING CLAUSE:***

1)

SQL> SELECT PRODUCTID,CUSTOMERID,TOTAL\_COST,COUNT(\*) FROM CART GROUP BY PRODUCTID,CUSTOMERID,TOTAL\_COST HAVING TOTAL\_COST>800;

PRODUCTID CUSTOMERID TOTAL\_COST COUNT(\*)

---------- ---------- ---------- ----------

1. 14253602 1200 1
2. 14253603 3000 1

74859610 14253603 4000 1

74859610 14253601 4000 1

74859603 14253601 1200 1

74859603 14253603 1200 1

74859609 14253603 1999 1 74859612 14253603 1600 1

8 rows selected.

2)

SQL> SELECT CUSTOMER,DAYS\_OF\_DELIVERY FROM ORDERS GROUP BY CUSTOMER,DAYS\_OF\_DELIVERY HAVING DAYS\_OF\_DELIVERY>=2;

CUSTOMER DAYS\_OF\_DELIVERY

---------- ---------------- 14253602 4

14253601 2

14253603 3

14253605 3

***13)ORDER BY CLAUES:***

1)

SQL> SELECT \* FROM PRODUCT WHERE PRICE>500 ORDER BY PRICE DESC;

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

74859606 LENOVO 320P GADGET 45000

74859610 NIKE RUNNERS FOOTWEAR 3999

74859604 RAYBAN GOGGLES FASHION 3000

74859609 DENIM JACKET FASHION 1999

74859603 SKULLCANDY 2.0 HEADPHONES 1200

74859612 METALLICA TSHIRT FASHION 800

74859602 SANDISK PENDRIVE GADGET 599

7 rows selected.

2)

SQL> SELECT \* FROM PRODUCT WHERE PRICE>700 ORDER BY PRICE ASC;

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

74859612 METALLICA TSHIRT FASHION 800

74859603 SKULLCANDY 2.0 HEADPHONES 1200

74859609 DENIM JACKET FASHION 1999

74859604 RAYBAN GOGGLES FASHION 3000

74859610 NIKE RUNNERS FOOTWEAR 3999

74859606 LENOVO 320P GADGET 45000

6 rows selected.

***14) JOIN MORE THAN 2 TABLES (3 QUERIES):***

1)

SQL> SELECT CUSTOMERNAME,PRODUCTNAME,PRICE FROM CUSTOMER,PRODUCT,CART WHERE

CUSTOMER.CUSTOMERID=CART.CUSTOMERID AND PRODUCT.PRODUCTID=CART.PRODUCTID;

CUSTOMERNAME PRODUCTNAME PRICE

-------------------- -------------------- ----------

RISHIRAJ MALIK REDMI NOTE 4 COVER 300

SANYAM SRIVASTAVA SANDISK PENDRIVE 599

SHROUD CHAURASIA SKULLCANDY 2.0 1200

RISHIRAJ MALIK SKULLCANDY 2.0 1200

SANYAM SRIVASTAVA SKULLCANDY 2.0 1200

SHROUD CHAURASIA RAYBAN GOGGLES 3000

PARVEZ FERNANDIZ SKULL SKIN LAPTOP 255 SHROUD CHAURASIA DENIM JACKET 1999

SHROUD CHAURASIA NIKE RUNNERS 3999

SANYAM SRIVASTAVA NIKE RUNNERS 3999

SHROUD CHAURASIA METALLICA TSHIRT 800

11 rows selected.

2)

SQL> SELECT CUSTOMERNAME,TOTAL\_COST,ORDERSTATE

1. FROM CUSTOMER,CART,ORDERS WHERE
2. CUSTOMER.CUSTOMERID=CART.CUSTOMERID AND CART.SERIALNO=ORDERS.SERIALNO;

CUSTOMERNAME TOTAL\_COST ORDERSTATE

-------------------- ---------- --------------------

SANYAM SRIVASTAVA 1200 DELIVERED

SANYAM SRIVASTAVA 599 SHIPPED

RISHIRAJ MALIK 1200 PROCESSING

SHROUD CHAURASIA 1999 DISPATCHED

SHROUD CHAURASIA 1200 SHIPPED

PARVEZ FERNANDIZ 255 SHIPPED

6 rows selected.

3)

SQL> SELECT CUSTOMERNAME,PAYMENT\_METHOD,ORDERSTATE FROM CUSTOMER,PAYMENT,ORDERS

2 WHERE CUSTOMER.CUSTOMERID=ORDERS.CUSTOMER AND ORDERS.ORDERID=PAYMENT.ORDERID;

CUSTOMERNAME PAYMENT\_METHOD ORDERSTATE

-------------------- -------------------- -------------------- SANYAM SRIVASTAVA COD SHIPPED

SANYAM SRIVASTAVA COD DELIVERED

RISHIRAJ MALIK CREDIT CARD PROCESSING SHROUD CHAURASIA CREDIT CARD SHIPPED

PARVEZ FERNANDIZ COD SHIPPED

PARVEZ FERNANDIZ COD DISPATCHED

1. rows selected.

***15)SUB QUIRES(3 QUIRES):***

**1) DISPLAY PRODUCT DETAILS OF THE ITEMS IN THE CART WHEN TOTAL COST IS MORE THAN 500.**

SQL> SELECT \* FROM PRODUCT WHERE PRODUCTID=ANY(SELECT PRODUCTID FROM CART

WHERE TOTAL\_COST>500);

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

* 1. REDMI NOTE 4 COVER ACCESSORY 300
  2. SANDISK PENDRIVE GADGET 599
  3. SKULLCANDY 2.0 HEADPHONES 1200
  4. RAYBAN GOGGLES FASHION 3000
  5. DENIM JACKET FASHION 1999
  6. NIKE RUNNERS FOOTWEAR 3999

74859612 METALLICA TSHIRT FASHION 800

1. rows selected.

**2) DISPLAY PRODUCT DETAILS OF ORDERS THAT ARE SHIPPED.**

SQL> SELECT \* FROM PRODUCT WHERE PRODUCTID=ANY(SELECT PRODUCTID FROM CART WHERE SERIALNO=ANY(SELECT SERIALNO FROM ORDERS WHERE ORDERSTATE='SHIPPED'));

PRODUCTID PRODUCTNAME CATEGORY PRICE

---------- -------------------- ---------- ----------

1. SANDISK PENDRIVE GADGET 599
2. SKULLCANDY 2.0 HEADPHONES 1200

74859608 SKULL SKIN LAPTOP ACCESSORY 255

## 3) DISPLAY CART NUMBER OF ORDER PAYED VIA COD

SQL> SELECT \* FROM CART WHERE SERIALNO=ANY(SELECT SERIALNO FROM ORDERS WHERE

ORDERID=ANY(SELECT ORDERID FROM PAYMENT WHERE PAYMENT\_METHOD='COD'));

SERIALNO CUSTOMERID PRODUCTID QUANTITY TOTAL\_COST

---------- ---------- ---------- ---------- ----------

1 14253601 74859602 1 599

3 14253601 74859603 1 1200

1. 14253605 74859608 1 255
2. 14253603 74859609 1 1999

# MODULE 5

***1) ONE PL/SQL BLOCK USING CURSOR:***

SQL> SET SERVEROUTPUT ON

SQL> DECLARE

1. CURSOR C1 IS SELECT CUSTOMERID,CUSTOMERNAME,CITY FROM CUSTOMER;
2. ID CUSTOMER.CUSTOMERID%TYPE;
3. N CUSTOMER.CUSTOMERNAME%TYPE;
4. C CUSTOMER.CITY%TYPE;
5. NU NUMBER;
6. BEGIN
7. NU:=&NU;
8. OPEN C1;
9. LOOP
10. FETCH C1 INTO ID,N,C;
11. EXIT WHEN C1%NOTFOUND;
12. IF NU=ID THEN
13. DBMS\_OUTPUT.PUT\_LINE(N);
14. END IF;
15. END LOOP;
16. CLOSE C1;
17. END;
18. /

Enter value for nu: 14253602 old 8: NU:=&NU; new 8: NU:=14253602;

RISHIRAJ MALIK

PL/SQL procedure successfully completed.

***2) ONE PL/SQL BLOCK USING PROCEDURE:***

SQL> CREATE OR REPLACE PROCEDURE NAME(COST CART.TOTAL\_COST%TYPE) IS

1. S CART.SERIALNO%TYPE;
2. P CART.PRODUCTID%TYPE;
3. BEGIN
4. SELECT SERIALNO,PRODUCTID INTO S,P FROM CART WHERE TOTAL\_COST=COST;
5. DBMS\_OUTPUT.PUT\_LINE(S ||' '||P);
6. END;
7. /

Procedure created.

SQL> EXEC NAME(255);

8 74859608

PL/SQL procedure successfully completed.

***3) ONE PL/SQL BLOCK USING FUNCTION:***

SQL> CREATE OR REPLACE FUNCTION PROJECT

1. RETURN NUMBER IS
2. TOTAL NUMBER(8):=0;
3. BEGIN
4. SELECT COUNT(\*) INTO TOTAL
5. FROM CART;
6. RETURN TOTAL;
7. END;
8. /

Function created.

SQL> DECLARE

1. N NUMBER(8);
2. BEGIN
3. N:=PROJECT();
4. DBMS\_OUTPUT.PUT\_LINE('TOTAL NO OF PRODUCT IN CART:'||N);
5. END;
6. /

TOTAL NO OF PRODUCT IN CART:11

PL/SQL procedure successfully completed.

***4) ONE PL/SQL BLOCK USING TRIGGER:***

## (BEFORE TRIGGER EXECUTION)

SQL> SELECT \* FROM PAYMENT;

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

1. 14253601 93827101 COD 599
2. 14253601 93827102 COD 4000
3. 14253602 93827103 CREDIT CARD 1200
4. 14253603 93827104 CREDIT CARD 1200
5. 14253605 93827105 COD 255
6. 14253605 93827106 COD 1999

6 rows selected.

SQL> SELECT \* FROM ORDERS;

ORDERID CUSTOMER SERIALNO ORDERSTATE DAYS\_OF\_DELIVERY DOD

---------- ---------- ---------- -------------------- ---------------- ---------

1. 14253601 1 SHIPPED 2 11-JAN-18
2. 14253601 3 DELIVERED 2 13-DEC-18
3. 14253602 5 PROCESSING 4 13-NOV-18
4. 14253603 6 SHIPPED 3 24-DEC-18
5. 14253605 8 SHIPPED 3 30-OCT-18
6. 14253605 9 DISPATCHED 1 30-OCT-18

6 rows selected.

SQL> CREATE OR REPLACE TRIGGER DEL

1. BEFORE DELETE ON ORDERS FOR EACH ROW
2. BEGIN
3. DELETE FROM PAYMENT WHERE ORDERID=:OLD.ORDERID;
4. END;
5. /

Trigger created.

SQL> DELETE FROM ORDERS WHERE ORDERID=93827101;

1 row deleted.

## (AFTER TRIGGER EXECUTION)

SQL> SELECT \* FROM PAYMENT;

PAYMENTID CUSTOMERID ORDERID PAYMENT\_METHOD AMOUNT

---------- ---------- ---------- -------------------- ----------

1. 14253601 93827102 COD 4000
2. 14253602 93827103 CREDIT CARD 1200
3. 14253603 93827104 CREDIT CARD 1200
4. 14253605 93827105 COD 255
5. 14253605 93827106 COD 1999

SQL> SELECT \* FROM ORDERS;

ORDERID CUSTOMER SERIALNO ORDERSTATE DAYS\_OF\_DELIVERY DOD

---------- ---------- ---------- -------------------- ---------------- ---------

1. 14253601 3 DELIVERED 2 13-DEC-18
2. 14253602 5 PROCESSING 4 13-NOV-18
3. 14253603 6 SHIPPED 3 24-DEC-18
4. 14253605 8 SHIPPED 3 30-OCT-18
5. 14253605 9 DISPATCHED 1 30-OCT-18