RDBMS Assignment - 2

1) User table:

```
create table cust ( user_id int primary key, user_name varchar2(20),
user_email varchar2(25) NOT NULL, user_password varchar2(12) CHECK
(LENGTH(user_password) >=8) NOT NULL);
```

```
SQL> desc cust;
 Name                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 USER_ID                   NOT NULL NUMBER(38)
 USER_NAME                          VARCHAR2(20)
 USER_EMAIL                NOT NULL VARCHAR2(25)
 USER_PASSWORD             NOT NULL VARCHAR2(12)
```

2) product table:

```
create table prod
(
    prod_id int primary key,   prod_name varchar2(20) NOT NULL,
    price int NOT NULL,  users_id int,
   FOREIGN KEY (users_id) REFERENCES cust(user_id)
);
```

```
SQL> desc prod;
 Name                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 PROD_ID                   NOT NULL NUMBER(38)
 PROD_NAME                 NOT NULL VARCHAR2(20)
 PRICE                     NOT NULL NUMBER(38)
 USERS_ID                           NUMBER(38)
```

3) orders table:

create table sys_orders

(order_id int PRIMARY KEY, order_cost int,

product_id int REFERENCES prod(prod_id), use_id int REFERENCES cust(user_id));

SQL> desc sys_orders;

Name	Null?	Type
ORDER_ID	NOT NULL	NUMBER(38)
ORDER_COST		NUMBER(38)
PRODUCT_ID		NUMBER(38)
USE_ID		NUMBER(38)

4) Transaction table

create table orders_transactions

(order_Id int REFERENCES sys_orders(order_id), user_Id REFERENCES cust(user_id),

transaction_Id int PRIMARY KEY, transaction_Date DATE NOT NULL, payment_Mode varchar(15), discount int, payment_Status varchar(15)

);

SQL> desc order_transactions;

Name	Null?	Type
TRANS_ID	NOT NULL	NUMBER(38)
DATE_TRANS	NOT NULL	DATE
PAYMENT_METHOD		VARCHAR2(15)
DISCOUNT		NUMBER(38)
PAYMENT_STATUS		VARCHAR2(15)
ORDER_ID		NUMBER(38)

Adding 5 records to each table.

1) Customer Table:

```
SQL> insert into cust values(1, 'Pranjal', 'Pranjal@123.com', 'Pranjal@123');
1 row created.

SQL> insert into cust values(2, 'Rasika', 'rasika@gmail.com', 'Rasika123#');
1 row created.

SQL> insert into cust values(3, 'Komal', 'KomalS@rediff.com', 'KomalS987');
1 row created.

SQL> insert into cust values(4, 'Anuja', 'AnujaM@gmail.com', 'Anuja@354');
1 row created.

SQL> insert into cust values(5, 'Seema', 'SeemaW@yahoo.com', 'User@123');
1 row created.

SQL> select * from cust;

  USER_ID USER_NAME          USER_EMAIL             USER_PASSWOR
---------- -------------------- ------------------------ ------------------------------------
         1 Pranjal            Pranjal@123.com          Pranjal@123
         2 Rasika             rasika@gmail.com         Rasika123#
         3 Komal               KomalS@rediff.com       KomalS987
         4 Anuja              AnujaM@gmail.com         Anuja@354
         5 Seema               SeemaW@yahoo.com        User@123
```

2) Product Table:

```
SQL> insert into prod values(101, 'Mobile', 12999, 4);
1 row created.

SQL> insert into prod values(102, 'TV', 18500, 1);
1 row created.

SQL> insert into prod values(103, 'Headphones', 2000, 2);
1 row created.

SQL> insert into prod values(104, 'Laptop', 71000, 5);
1 row created.

SQL> insert into prod values(105, 'Shirt', 800, 3);
1 row created.

SQL> select * from prod;

   PROD_ID PROD_NAME              PRICE   USERS_ID
---------- -------------------- ---------- ----------
       101 Mobile                  12999         4
       102 TV                      18500         1
       103 Headphones               2000         2
       104 Laptop                  71000         5
       105 Shirt                     800         3
```

3) Order Page

```
SQL> insert into sys_orders values(789, 18500, 102, 1);
1 row created.

SQL> insert into sys_orders values(456, 12999, 101, 4);
1 row created.

SQL> insert into sys_orders values(123, 800, 105, 3);
1 row created.

SQL> insert into sys_orders values(147, 2000, 103, 2);
1 row created.

SQL> insert into sys_orders values(258, 71000, 104, 5);
1 row created.

SQL> select * from sys_orders;
  ORDER_ID ORDER_COST PRODUCT_ID     USE_ID
---------- ---------- ---------- ----------
       789      18500        102          1
       456      12999        101          4
       123        800        105          3
       147       2000        103          2
       258      71000        104          5
```

4) Transaction table

```
SQL> insert into orders_transactions values(789, 1, 1001, '24-Nov- 2021', 'PhonePay', 10,
'Paid');

1 row created.


SQL> insert into orders_transactions values(456, 4, 1002, '24-Nov- 2021', 'COD', 5,
'Un_paid');

1 row created.


SQL> insert into orders_transactions values(123, 3, 1003, '25-Nov- 2021', 'GPay', 15, 'paid');

1 row created.


SQL> insert into orders_transactions values(147, 2, 1004, '26-Nov- 2021', 'AmazonPay', 20,
'paid');

1 row created.


SQL> insert into orders_transactions values(258, 5, 1005, '27-Nov-2021', 'COD', 5,
'Un_paid');

1 row created.


SQL> select * from orders_transactions;

  ORDER_ID    USER_ID TRANSACTION_ID TRANSACTI PAYMENT_MODE      DISCOUNT

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

PAYMENT_STATUS

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

     789          1          1001 24-NOV-21 PhonePay              10

Paid

     456          4          1002 24-NOV-21 COD                   5

Un_paid


     123          3          1003 25-NOV-21 GPay                  15              paid
```

```
 ORDER_ID    USER_ID TRANSACTION_ID TRANSACTI PAYMENT_MODE      DISCOUNT
---------- ---------- -------------- --------- --------------- ----------
PAYMENT_STATUS
---------------
     147          2          1004 26-NOV-21 AmazonPay             20
paid


     258          5          1005 27-NOV-21 COD                   5
Un_paid
```

1. Create a db view with order details of products sold.

Order Id	Order Total (total of those products that belongs to user)	Date	Discount	Payment method	Payment status

```
 create view admin_view as
 select s.order_id, s.order_cost,   t.transaction_date,   t.discount, t.payment_mode,
 t.payment_status  from sys_orders s, orders_transactions t
 where s.order_id = t.order_id
```

```
SQL> select * from admin_view;
 ORDER_ID ORDER_COST TRANSACTI   DISCOUNT PAYMENT_MODE    PAYMENT_STATUS
---------- ---------- --------- ---------- ---------- ------------------------------
     789      18500 24-NOV-21         10 PhonePay       Paid
     456      12999 24-NOV-21          5 COD            Un_paid
     123        800 25-NOV-21         15 GPay           paid
     147       2000 26-NOV-21         20 AmazonPay      paid
     258      71000 27-NOV-21          5 COD            Un_paid
```

2. Generate a monthly report with orders, products and users details for finance dept. The primary key in this report will be order_id. The report should automatically take last 30 days.

order_id	Order Date	product names	cost of each product	total cost of order(sum of all products)	user name	email

```
SELECT
        s.order_id as "Order_id",
        p.prod_name as "Product",
        p.price as "Cost",
        c.user_name as "User",
        c.user_email as "Email"
from ((sys_orders s INNER JOIN prod p ON s.product_id = p.prod_id) INNER JOIN cust c ON
s.use_id = c.user_id);
```

Order_id	Product	Cost	user	Email
789	TV	18500	Pranjal	Pranjal@123.com
147	Headphones	2000	Rasika	rasika@gmail.com
123	Shirt	800	Komal	KomalS@rediff.com
456	Mobile	12999	Anuja	AnujaM@gmail.com
258	Laptop	71000	Seema	SeemaW@yahoo.com