RDBMS Assignment: (Part – 2)

Q. Create a database structure for e-commerce application.

User Table	**Product**
create table app_User (u_id int primary key, u_name varchar2(20), u_email varchar2(25) NOT NULL, password varchar2(12) CHECK (LENGTH(password) >=8) NOT NULL)); SQL> Table created.	create table product (prod_id int primary key, prod_name varchar2(20) NOT NULL, price int NOT NULL, u_id int); SQL> Table created.

Cust_order	**transaction**
create table cust_order (o_id int PRIMARY KEY, o_cost int, p_id int REFERENCES product(prod_id), u_id int REFERENCES app_User(u_id)); SQL> Table created.	create table order_transactions (trans_Id int PRIMARY KEY, date_Trans DATE NOT NULL, payment_method varchar(15), discount int, payment_status varchar(15), order_id int REFERENCES cust_order(o_id), user_id REFERENCE app_user(u_id)); SQL> Table created.

ALTER TABLE product ADD FOREIGN KEY (u_id)
REFERENCES app_User(u_id)
SQL> Table altered.

Add Data in all tables:

1) app_Cust table:

SQL> insert into app_user values(1, 'vipulchandankar19@gmail.com', 'vipulchandankar@gil.com', 'Vipul0097’);

1 row created.

SQL> insert into app_user values(2, 'Rohit Patil', 'rohit@gmail.com', 'Rohit@123');

1 row created.

SQL> insert into app_user values(3, 'Kapil Yedle', 'Kapil@Yahoo.com', 'Kapil@282');

1 row created.

SQL> insert into app_user values(4, 'Niraj Badgujar', 'Niraj@rediff.com', 'Niraj@899');

1 row created.

SQL> insert into app_user values(5, 'Nilesh Sonar', 'Nilesh@gmail.com', 'NileshS!09');

1 row created.

```
SQL> select * from app_user;

      U_ID U_NAME              U_EMAIL                   PASSWORD
---------- ------------------- ------------------------- ------------
         1 Vipul Chandankar    Vipulchandankar19@gil.com Vipul0097
         2 Rohit Patil         rohit@gmail.com           Rohit@123
         3 Kapil Yedle         Kapil@Yahoo.com           Kapil@282
         4 Niraj Badgujar      Niraj@rediff.com          Niraj@899
         5 Nilesh Sonar        Nilesh@gmail.com          NileshS!09
```

2) Product Table:

SQL> insert into product values(1001, 'Speaker', 3500, 2);

1 row created.

SQL> insert into product values(1002, 'Shirt', 800, 4);

1 row created.

SQL> insert into product values(1003, 'Mobile', 80000, 3);

1 row created.

SQL> insert into product values(1004, 'TV', 16500, 1);

1 row created.

SQL> insert into product values(1005, 'Books', 500, 5);

1 row created.

```
SQL> select * from product;

   PROD_ID PROD_NAME                PRICE       U_ID
---------- -------------------- ---------- ----------
      1001 Speaker                    3500          2
      1002 Shirt                       800          4
      1003 Mobile                    80000          3
      1004 TV                        16500          1
      1005 Books                       500          5

SQL>
```

3) cust_order Table:

SQL> insert into cust_order values(501, 3500, 1001, 2);

1 row created.

SQL> insert into cust_order values(502, 80000, 1003, 3);

1 row created.

SQL> insert into cust_order values(503, 500, 1005, 5);

1 row created.

SQL> insert into cust_order values(504, 16500, 1004, 1);

1 row created.

SQL> insert into cust_order values(505, 800, 1002, 4);

1 row created.

```
SQL> select * from cust_order;

      O_ID     O_COST       P_ID       U_ID
---------- ---------- ---------- ----------
       501       3500       1001          2
       502      80000       1003          3
       503        500       1005          5
       504      16500       1004          1
       505        800       1002          4

SQL>
```

4) Transaction table:

SQL> insert into transaction values(123, '27-NOV-2021', 10, 'COD', 'Not Paid', 501, 'Pune', user_id,5);

1 row created.

SQL> insert into transaction values(124, '27-NOV-2021', 15, 'Debit Card', 'Paid', 505, 'Nashik', 2);

1 row created.

SQL> insert into transaction values(125, '27-NOV-2021', 5, 'PhonePay', 'Paid', 503, 'Jalgaon',1);

1 row created.

SQL> insert into transaction values(126, '27-NOV-2021', 15, 'GPAY', 'Paid', 502, 'Mumbai'. 3);

1 row created.

SQL> insert into transaction values(127, '27-NOV-2021', 15, 'CASH', 'Not Paid', 504, 'Pune',5);

1 row created.

```
SQL> select * from transaction;

      T_ID D_OF_TRAN   DISCOUNT PAYMENT_METH PAYMENT_ST       O_ID
---------- --------- ---------- ------------ ---------- ----------
ADDRESS                 USER_ID
-------------------- ----------
       123 27-NOV-21         10 COD          Not Paid          501
Pune                          5

       124 27-NOV-21         15 Debit Card   Paid              505
Nashik                        2

       125 27-NOV-21          5 PhonePay     Paid              503
Jalgaon                       1


      T_ID D_OF_TRAN   DISCOUNT PAYMENT_METH PAYMENT_ST       O_ID
---------- --------- ---------- ------------ ---------- ----------
ADDRESS                 USER_ID
-------------------- ----------
       126 27-NOV-21         15 GPAY         Paid              502
Mumbai                        3

       127 27-NOV-21         15 CASH         Not Paid          504
Pune                          5
```

Q. 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 v1 as

select c.o_id, c.o_cost,
t.d_of_Transaction,

t.discount, t.payment_method,
t.payment_status

from cust_order c, transaction t

where c.o_id = t.o_id;

```
SQL> ed
Wrote file afiedt.buf

  1  create view v1 as
  2  select c.o_id, c.o_cost, t.d_of_Transaction,
  3  t.discount, t.payment_method, t.payment_status
  4  from cust_order c, transaction t
  5* where c.o_id = t.o_id
SQL> /

View created.

SQL> select * from v1;

      O_ID     O_COST D_OF_TRAN   DISCOUNT PAYMENT_METH PAYMENT_ST
---------- ---------- --------- ---------- ------------ ----------
       501       3500 27-NOV-21         10 COD          Not Paid
       505        800 27-NOV-21         15 Debit Card   Paid
       503        500 27-NOV-21          5 PhonePay     Paid
       502      80000 27-NOV-21         15 GPAY         Paid
       504      16500 27-NOV-21         15 CASH         Not Paid

SQL>
```

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

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 O.o_id, O.o_cost, p.prod_name, p.price, u.u_name, u.u_email

from ((cust_order O INNER JOIN product p ON O.p_id = p.prod_id) INNER JOIN app_user u

ON O.u_id = u.u_id)
```

```
Wrote file afiedt.buf

  1  select O.o_id, O.o_cost, p.prod_name, p.price, u.u_name, u.u_email
  2  from ((cust_order O INNER JOIN product p ON O.p_id = p.prod_id) INNER JOIN app_user u
  3* ON O.u_id = u.u_id)
SQL> /

      O_ID     O_COST PROD_NAME                PRICE U_NAME
---------- ---------- -------------------- ---------- --------------------
U_EMAIL
-------------------------
       501       3500 Speaker                  3500 Rohit Patil
rohit@gmail.com

       502      80000 Mobile                   80000 Kapil Yedle
Kapil@Yahoo.com

       503        500 Books                      500 Nilesh Sonar
Nilesh@gmail.com


      O_ID     O_COST PROD_NAME                PRICE U_NAME
---------- ---------- -------------------- ---------- --------------------
U_EMAIL
-------------------------
       504      16500 TV                       16500 Vipul Chandankar
Vipulchandankar19@gil.com

       505        800 Shirt                      800 Niraj Badgujar
Niraj@rediff.com


SQL>
```