**RDBMS Assignment - 2**

**1) User table:**

CREATE TABLE customer( user\_id int PRIMARY KEY, user\_name varchar2(20), user\_email

varchar2(30) NOT NULL, user\_password varchar2(15) CHECK (LENGTH(user\_password) >=8)

NOT NULL);

SQL> desc customer;

Name Null Type

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

USER\_ID NOT NULL NUMBER(20)

USER\_NAME VARCHAR2(20)

USER\_EMAIL NOT NULL VARCHAR2(30)

USER\_PASSWORD NOT NULL VARCHAR2(15)

**2) Product table:**

CREATE TABLE product(prod\_id int PRIMARY KEY, prod\_name varchar2(30) NOT NULL, price int NOT NULL, users\_id int, FOREIGN KEY (users\_id) REFERENCES customer(user\_id));

SQL> desc prod;

Name Null Type

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

PROD\_ID NOT NULL NUMBER(20)

PROD\_NAME NOT NULL VARCHAR2(30)

PRICE NOT NULL NUMBER(20)

USERS\_ID NUMBER(25)

**3) Order table:**

CREATE TABLE system\_order(order\_id int PRIMARY KEY,order\_cost int,product\_id int REFERENCES prod(prod\_id), use\_id int REFERENCES customer(use\_id) );

SQL> desc system\_order;

Name Null? Type

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

ORDER\_ID NOT NULL NUMBER(20)

ORDER\_COST NUMBER(20)

PRODUCT\_ID NUMBER(20)

USE\_ID NUMBER(20)

**4) Transaction table:**

CREATE TABLE order\_transaction(order\_id int REFERENCES system\_order(order\_id), user\_id

REFERENCES customer(user\_id),transaction\_Id int PRIMARY KEY, transaction\_date DATE

NOT NULL, payment\_mode varchar(30), discount int, payment\_Status varchar(30));

SQL> desc order\_transaction;

Name Null? Type

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TRAN\_ID NOT NULL NUMBER(20)

TRAN\_DATE NOT NULL DATE

PAYMENT\_MODE VARCHAR2(30)

DISCOUNT NUMBER(20)

PAYMENT\_STATUS VARCHAR2(30)

ORDER\_ID NUMBER(20)

**Adding Five Records To Each Table:**

**1) customer Table:**

SQL> INSERT INTO customer VALUES (1, 'Shivanjalee', 'shivanjalee06@mac.com', 'Shivanjalee#06');

Row created.

SQL> INSERT INTO customer VALUES (2, 'Gunjan', 'gunjan28@rediff.com', 'Gunjan@28');

Row created.

SQL> INSERT INTO customer VALUES(3, 'Mansi', 'mansipande@gmail.com', 'MansiP\_123');

Row created.

SQL> INSERT INTO customer VALUES(4, 'Simran', ' simranshaikh@yahoo.com', 'Simran$$$13');

Row created.

SQL> INSERT INTO customer VALUES (5, 'Ankur’, 'ankurmeena@hotmail.com', 'Ankur@16');

Row created.

SQL> select \* from customer;

USER\_ID USER\_NAME USER\_EMAIL USER\_PASSWORD

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1 Shivanjalee shivanjalee06@mac.com Shivanjalee#06

2 Gunjan gunjansoni@rediff.com Gunjan@28

3 Mansi mansipande@gmail.com MansiP\_123

4 Simran simranshaikh@yahoo.com Simran$$$13

5 Ankur [ankurmeena@hotmail.com](mailto:ankurmeena@hotmail.com) Ankur@16

**2)Product Table:**

SQL> INSERT INTO product VALUES (101, 'Earphones ', 1199, 11);

Row created.

SQL> INSERT INTO product VALUES (102, 'Headset', 1500, 55);

Row created.

SQL> INSERT INTO product VALUES (103, 'Touchoad', 22000, 77);

Row created.

SQL> INSERT INTO product VALUES (104, 'Laptop', 45000, 44);

Row created.

SQL> INSERT INTO product VALUES (105, 'Cellphone', 28000, 22);

Row created.

SQL> SELECT \* FROM product;

PROD\_ID PROD\_NAME PRICE USERS\_ID

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

101 Earphones 1199 11

102 Headset 1500 55

103 Touchpad 22000 77

104 Laptop 45000 44

105 Cellphone 28000 22

**3) Order Table :**

SQL> INSERT INTO system\_order VALUES (167, 28000, 105, 22);

Row created.

SQL> INSERT INTO system\_order VALUES (672, 1199, 101, 11);

Row created.

SQL> INSERT INTO system\_order VALUES (119, 1500, 102, 55);

Row created.

SQL> INSERT INTO system\_order VALUES (834, 22000, 103, 77);

Row created.

SQL> INSERT INTO system\_order VALUES (123, 45000, 104, 44);

Row created.

SQL> SELECT \*FROM system\_order;

ORDER\_ID ORDER\_COST PRODUCT\_ID USE\_ID

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167 28000 105 22

672 11999 101 11

119 1500 102 55

834 22000 103 77

123 45000 104 44

**4) Transaction Table:**

SQL> INSERT INTO order\_transaction VALUES (834, 77, 111, '26-Nov- 2021', 'CreditCard', 10,

'Paid');

Row created.

SQL> INSERT INTO order\_transaction VALUES (123, 44, 222, '27-Nov- 2021', 'POD', 15,

Paid');

Row created.

SQL> INSERT INTO order\_transaction VALUES (119, 55, 333, '28-Nov- 2021', 'PhonePay', 25, 'Not \_paid');

Row created.

SQL> INSERT INTO order\_transaction VALUES (167, 22, 444, '29-Nov- 2021', 'PayPal', 10,

'Paid');

Row created.

SQL> INSERT INTO order\_transaction VALUES (672, 11 , 555, '29-Nov-2021', 'Gpay', 20,

‘Not\_paid');

Row created.

SQL> SELECT\*FROM order\_transaction;

ORDER USER TRANSACTION TRANSACTION PAYMENT DISCOUNT PAYMENT

\_ID \_ID \_ID \_DATE \_MODE \_STATUS

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834 77 111 26-NOV-21 CreditCard 10 Paid

123 44 222 27-NOV-21 POD 15 Paid

119 55 333 28-NOV-21 PhonePay 25 Not\_paid

167 22 444 29-NOV-21 GPay 10 Paid

672 11 555 29-NOV-21 PayPal 20 Not\_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 db\_view as

SELECT s.order\_id, s.order\_cost, t.transaction\_date, t.discount, t.payment\_mode,t.payment\_status FROM system\_order s, order\_transaction t WHERE s.order\_id = t.order\_id

SQL> SELECT \*FROM db\_view;

ORDER ORDER TRANSACTION DISCOUNT PAYMENT PAYMENT

\_ID \_COST \_DATE \_MODE \_STATUS

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119 1500 28-NOV-21 25 PhonePay Not\_Paid

672 1199 29-NOV-21 20 PayPal Noy\_paid

167 28000 29-NOV-21 10 Gpay Paid

834 22000 26-NOV-21 10 CreditCard Paid

123 45000 27-NOV-21 15 POD 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 customer c ON s.use\_id = c.user\_id);

Order\_id Product Cost User Email

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119 Headset 1500 Shivanjalee shivanjalee06@mac.com

834 Touchpad 22000 Gunjan gunjan@rediff.com

167 Cellphone 28000 Mansi mansipande@gmail.com

672 Earphones 1199 Simran simranshaikh@yahoo.com

123 Laptop 45000 [Ankur@16](mailto:Ankur@16) [ankurmeena@hotmail.com](mailto:ankurmeena@hotmail.com)