ORACLE LAB ASSIGNMENT – 6

Q.1 Create a database cluster named order_customer and include the tables customer and orders within it.

Create cluster

```
Connected.

SQL> CREATE CLUSTER order_customer (customer_id NUMBER);

Cluster created.
```

Create index

```
SQL> CREATE INDEX order_customer_idx
2 ON CLUSTER order_customer;
```

Create table

```
SQL> CREATE TABLE customer (
2 customer_id NUMBER PRIMARY KEY,
3 customer_name VARCHAR2(50),
4 contact_number VARCHAR2(15)
5 )
6 CLUSTER order_customer (customer_id);
Table created.
```

• Display table

Create table

Display table

```
      SQL> desc orders;

      Name
      Null?
      Type

      ORDER_ID
      NOT NULL
      NUMBER

      CUSTOMER_ID
      NUMBER

      ORDER_DATE
      DATE

      TOTAL_AMOUNT
      NUMBER(10,2)
```

Insert data

```
SQL> INSERT INTO customer VALUES (1, 'jay', '555-1234');

1 row created.

SQL> INSERT INTO customer VALUES (2, 'vijay', '555-5678');

1 row created.
```

Display data

Insert data

```
SQL> INSERT INTO orders VALUES (101, 1, T0_DATE('2024-09-19', 'YYYY-MM-DD'), 150.00);
1 row created.
SQL> INSERT INTO orders VALUES (102, 2, T0_DATE('2024-09-18', 'YYYY-MM-DD'), 200.50);
1 row created.
```

Display data

• Display View Cluster

- Q.2 Create a snapshot based upon the product_master table.
 - Create table

```
SQL> CREATE TABLE product_master (
2    product_id NUMBER PRIMARY KEY,
3    product_name VARCHAR2(100),
4    price NUMBER(10, 2)
5 );

Table created.
```

Display table

Insert data

```
SQL> INSERT INTO product_master VALUES (1, 'Laptop', 999.99);
1 row created.
SQL> INSERT INTO product_master VALUES (2, 'Smartphone', 499.50);
1 row created.
```

Display data

```
SQL> select *from product_master;

PRODUCT_ID PRODUCT_NAME PRICE

1 Laptop 999.99
2 Smartphone 499.5
```

• Create snapshot

```
SQL> CREATE SNAPSHOT product_snapshot
2 REFRESH COMPLETE START WITH SYSDATE NEXT SYSDATE + 1
3 AS
4 SELECT * FROM product_master;

Materialized view created.
```

Display snapshot

```
SQL> SELECT * FROM product_snapshot;

PRODUCT_ID PRODUCT_NAME PRICE
Laptop 999.99
2 Smartphone 999.5
```

- Q.3 Create synonyms pvt_client (private) and pub_client(public) based upon the client_master table.
 - Create table

```
SQL> CREATE TABLE client_master (
2     client_id NUMBER PRIMARY KEY,
3     client_name VARCHAR2(100),
4     email VARCHAR2(100)
5 );

Table created.
```

• Display table

Insert data

```
SQL> INSERT INTO client_master VALUES (1, 'jay', 'contact@acme.com');
1 row created.
SQL> INSERT INTO client_master VALUES (2, 'ajay', 'support@globex.com');
1 row created.
```

Display data

```
SQL> select *from client_master;

CLIENT_ID CLIENT_NAME EMAIL

1 jay
2 ajay
contact@acme.com
support@globex.com
```

• Create private synonym

```
SQL> CREATE SYNONYM pvt_client FOR client_master;
Synonym created.
```

Display synonym

```
SQL> select *from pvt_client;

CLIENT_ID CLIENT_NAME EMAIL

1 jay contact@acme.com support@globex.com
```

• Create private synonym

```
SQL> CREATE PUBLIC SYNONYM pub_client FOR client_master;
Synonym created.
```

Dispay synonym

```
SQL> select *from pub_client;

CLIENT_ID CLIENT_NAME EMAIL

1 jay contact@acme.com support@globex.com
```