SQL QUERIES 2

AIM:

Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym Problem Statement:

1. Create table Customers with schema (cust_id, cust_name, product, quantity, total_price)

mysql> Create table Customers (cust_id int primary key auto_increment, cust_name varchar(40), product varchar(20), quantity int, total_price float);
Query OK, 0 rows affected (0.09 sec)

2. Use sequence/ auto-increment for incrementing customer ID and Insert 5 customer records to the table Customers

mysql> Insert into customers values(1, "Zulfa", "Laptop", 3, 250);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into customers(cust_name, product, quantity, total_price) values("Alex", "TV", 4, 300);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into customers(cust_name, product, quantity, total_price) values("John", "Oven", 1, 800);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into customers(cust_name, product, quantity, total_price) values("Ram", "Washing Machine", 2, 700);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into customers(cust_name, product, quantity, total_price) values("Priya", "Earphones", 4, 1000);
Query OK, 1 row affected (0.01 sec)

mysql> select * from customers;

```
+---------+-----------+-----------------+----------+-------------+
| cust_id | cust_name | product         | quantity | total_price |
+---------+-----------+-----------------+----------+-------------+
|       1 | Zulfa     | Laptop          |        3 |         250 |
|       2 | Alex      | TV              |        4 |         300 |
|       3 | John      | Oven            |        1 |         800 |
|       4 | Ram       | Washing Machine |        2 |         700 |
|       5 | Priya     | Earphones       |        4 |        1000 |
+---------+-----------+-----------------+----------+-------------+
5 rows in set (0.00 sec)
```

3. Alter the table Customers by adding one column 'price_per_qnty'

mysql> alter table customers add price_per_quantity int;

Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> update customers set price_per_quantity=83 where cust_id = 1;

Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update customers set price_per_quantity=75 where cust_id = 2;

Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update customers set price_per_quantity=800 where cust_id = 3;

Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update customers set price_per_quantity=350 where cust_id =4;

Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update customers set price_per_quantity=250 where cust_id =5;

Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from customers;

```
+---------+-----------+-----------------+----------+-------------+-------------------+
| cust_id | cust_name | product         | quantity | total_price | price_per_quantity |
+---------+-----------+-----------------+----------+-------------+-------------------+
|       1 | Zulfa     | Laptop          |        3 |         250 |                83 |
|       2 | Alex      | TV              |        4 |         300 |                75 |
|       3 | John      | Oven            |        1 |         800 |               800 |
|       4 | Ram       | Washing Machine |        2 |         700 |               350 |
|       5 | Priya     | Earphones       |        4 |        1000 |               250 |
+---------+-----------+-----------------+----------+-------------+-------------------+
5 rows in set (0.00 sec)
```

4. Create view 'Cust_View' on Customers displaying customer ID, customer name

mysql> create view cust_view as select cust_id, cust_name from customers;

Query OK, 0 rows affected (0.01 sec)

mysql> select * from cust_view;

```
+---------+-----------+
| cust_id | cust_name |
+---------+-----------+
|       1 | Zulfa     |
|       2 | Alex      |
|       3 | John      |
|       4 | Ram       |
|       5 | Priya     |
+---------+-----------+
5 rows in set (0.00 sec)
```

5. Update the view 'Cust_View to display customer ID, product, total price

mysql> alter view cust_view as select cust_id, product, total_price from customers;

Query OK, 0 rows affected (0.02 sec)

mysql> select * from cust_view;

```
+---------+----------------+-------------+
| cust_id | product        | total_price |
+---------+----------------+-------------+
|       1 | Laptop         |         250 |
|       2 | TV             |         300 |
|       3 | Oven           |         800 |
|       4 | Washing Machine |         700 |
|       5 | Earphones      |        1000 |
+---------+----------------+-------------+
5 rows in set (0.00 sec)
```

6. Drop the view 'Cust_View'

mysql> drop view cust_view;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from cust_view;
ERROR 1146 (42S02): Table 'batch2_coditas.cust_view' doesn't exist

7. Create index 'Cust_index' on customer name

mysql> create index cust_index on customers(cust_name);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0

8. Drop index 'Cust_index'

mysql> drop index cust_index on customers;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

9. Use sequence/ auto-increment for incrementing customer ID

mysql> Create table Customers (cust_id int primary key auto_increment, cust_name varchar(40), product varchar(20), quantity int, total_price float);
Query OK, 0 rows affected (0.09 sec)

mysql> alter table customers auto_increment= 10;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

10. Use the name alias for table Customers (rename the table in query)

mysql> select c.cust_id, c.cust_name, c.product, c.quantity, c.total_price, c.price_per_quantity from customers as C;

cust_id	cust_name	product	quantity	total_price	price_per_quantity
1	Zulfa	Laptop	3	250	83
2	Alex	TV	4	300	75
3	John	Oven	1	800	800
4	Ram	Washing Machine	2	700	350
5	Priya	Earphones	4	1000	250

5 rows in set (0.00 sec)

11. Drop the table Customers

mysql> drop table customers;
Query OK, 0 rows affected (0.06 sec)