ASSIGNMENT 6

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

1)Create Table Customers with Schema(cust_id,cust_name,product, quantity, total_price)

```
MariaDB [Coditas]> create table Customers
    -> ( cust_id int NOT NULL AUTO_INCREMENT,
    -> cust_name varchar(233),
    -> product varchar(233),
    -> quantity int,
    -> total_price int,
    -> primary key(cust_id));
Query OK, 0 rows affected (1.373 sec)
```

Create table Customers with attribute cust_id , cust_name, product, quantity, total_price

2) Use Sequence/auto-increment for incrementing customer ID and insert 5 record to the table Customers

```
MariaDB [Coditas]> alter table Customers AUTO_INCREMENT=5
->;
Query OK, 0 rows affected (0.138 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Anuj','Pipe',2,1200);
Query OK, 1 row affected (0.149 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Akash','Tap',3,500);
Query OK, 1 row affected (0.093 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Rejul','Knife',5,500);
Query OK, 1 row affected (0.037 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Akash','Bag',5,800);
Query OK, 1 row affected (0.187 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> select *from Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> select *from Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
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Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values('Ayushi','Bottle',5,1000);
Query OK, 1 row affected (0.158 sec)

MariaDB [Coditas]> insert into Customers(cust_name,product,quantity,total_price) values
```

Auto increment is automatically increase the primary key value one by one

3) Alter table Customers by adding one column 'price_per_qnty'

Alter table is used to add column in a table after creating table if we want to add one more column in table

4)Create view 'Cust_View' on Customers displaying Cust_id, cust_name

```
MariaDB [Coditas]> create view Cust_View as select cust_id,cust_name from Customers;
Query OK, 0 rows affected (0.257 sec)

MariaDB [Coditas]> select *from view;
ERROR 1146 (42S02): Table 'coditas.view' doesn't exist
MariaDB [Coditas]> select *from Cust_view;
+------+
| cust_id | cust_name |
+------+
| 5 | Anuj |
| 6 | Akash |
| 7 | Rejul |
| 8 | Akash |
| 9 | Ayushi |
+------+
5 rows in set (0.103 sec)
```

A view is a virtual table based on the result set of an SQL statement

5)Update the view 'Cust_View' to display Customer_id, product,total_price

We can update or change the attribute of view with the command create or replace view viewname as select * from Customers

6) Drop the view Cust_view

```
MariaDB [Coditas]> Drop view Cust_view;
Query OK, 0 rows affected (0.002 sec)

MariaDB [Coditas]> select *from Cust_view;

ERROR 1146 (42S02): Table 'coditas.cust_view' doesn't exist

MariaDB [Coditas]>
```

Drop View Command is used to delete the view permenatly from database

7) Create Index Cust_index on Customer_name

```
MariaDB [Coditas]> create index Cust_index on Customers(cust_name);
Query OK, 0 rows affected (0.730 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Index are used to retrieve data from the database more quickly than otherwise. User cannot see the indexes, they are just used to speed up searches/queries

8) Drop index Cust_index

```
MariaDB [Coditas]> drop index Cust_index on Customers;
Query OK, 0 rows affected (0.173 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Drop index statement is used to dekete an index in a table

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

```
MariaDB [Coditas]> select cust_name as CustomerName from Customers;
+-----+
| CustomerName |
+-----+
| Anuj |
| Akash |
| Rejul |
| Akash |
| Ayushi |
+-----+
5 rows in set (0.000 sec)
```

Alias are often used to make column names more readable. An Alias only exists for the duration of that query

10)Drop the table Customer

Drop command is used to Delete the table from database permenantly