

SQL Assignment 2

As on 15/07/2022

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Q1) Creating table with attributes

```
mysql> create table customers (  
-> cust_id int,  
-> cust_name varchar(40),  
-> product varchar(40),  
-> quantity int,  
-> total int);  
Query OK, 0 rows affected (0.08 sec)
```

Q2) Creating table and setting cust_id AUTO_INCREMENT

```
mysql> create table customers (  
-> cust_id int NOT NULL AUTO_INCREMENT,  
-> cust_name varchar(40),  
-> product varchar(40),  
-> quantity int,  
-> total int,  
-> PRIMARY KEY (cust_id));  
Query OK, 0 rows affected (0.06 sec)
```

Now, Adding 5 records to the table

```
mysql> insert into customers (cust_name, product, quantity, total) values  
-> ("Devayush", "IPhone", 6, 650000),  
-> ("Ram", "Cloth", 5, 5000),  
-> ("Sham", "Mixer", 1, 2000),  
-> ("Amit", "Bike", 1, 150000),  
-> ("Akshay", "Dosa", 3, 160);  
Query OK, 5 rows affected (0.01 sec)  
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select * from customers;  
+-----+-----+-----+-----+-----+  
| cust_id | cust_name | product | quantity | total |  
+-----+-----+-----+-----+-----+  
| 1 | Devayush | IPhone | 6 | 650000 |  
| 2 | Ram | Cloth | 5 | 5000 |  
| 3 | Sham | Mixer | 1 | 2000 |  
| 4 | Amit | Bike | 1 | 150000 |  
| 5 | Akshay | Dosa | 3 | 160 |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

Q3) Adding one column to the existing table

```
mysql> alter table customers
-> ADD price_per_qnty int;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc customers;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| cust_id        | int           | NO   | PRI | NULL    | auto_increment |
| cust_name      | varchar(40)   | YES  |     | NULL    |                |
| product        | varchar(40)   | YES  |     | NULL    |                |
| quantity       | int           | YES  |     | NULL    |                |
| total          | int           | YES  |     | NULL    |                |
| price_per_qnty | int           | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Q4) Creating Cust_View and showing customer name and customer id

```
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       | Devayush  |
| 2       | Ram       |
| 3       | Sham      |
| 4       | Amit      |
| 5       | Akshay    |
+-----+-----+
5 rows in set (0.00 sec)
```

Q5) Alter the cust_view and now display cust_id, products and total only

```
mysql> ALTER VIEW cust_view AS
-> Select
-> cust_id, product, total
-> from customers;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from cust_view
-> ;
+-----+-----+-----+
| cust_id | product | total |
+-----+-----+-----+
| 1 | iPhone | 650000 |
| 2 | Cloth | 5000 |
| 3 | Mixer | 2000 |
| 4 | Bike | 150000 |
| 5 | Dosa | 160 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

Q6) Drop Cust_view

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

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

Q7) Create cust_index on customer name

```
mysql> create INDEX cust_index
-> ON customers (cust_name);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Q8) Drop Index Cust_index

```
mysql> drop index cust_index ON customers;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Q9) AUTO_INCREMENT on cust_id

```
mysql> create table customers (
  -> cust_id int NOT NULL AUTO_INCREMENT,
  -> cust_name varchar(40),
  -> product varchar(40),
  -> quantity int,
  -> total int,
  -> PRIMARY KEY (cust_id));
Query OK, 0 rows affected (0.06 sec)
```

10) Use the name Alias for table customers

```
mysql> select * from customers as my_Customers;
+-----+-----+-----+-----+-----+-----+
| cust_id | cust_name | product | quantity | total | price_per_qnty |
+-----+-----+-----+-----+-----+-----+
| 1 | Devayush | iPhone | 6 | 650000 | NULL |
| 2 | Ram | Cloth | 5 | 5000 | NULL |
| 3 | Sham | Mixer | 1 | 2000 | NULL |
| 4 | Amit | Bike | 1 | 150000 | NULL |
| 5 | Akshay | Dosa | 3 | 160 | NULL |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

11) Drop table customers

```
mysql> drop table customers;
Query OK, 0 rows affected (0.02 sec)

mysql> select * from customers
  -> ;
ERROR 1146 (42S02): Table 'college.customers' doesn't exist
```