

# SQL Tasks

## Task 1.

1. Create table Customer with Schema(cust\_id, cust\_name, product, quantity, total\_price)

```
MySQL localhost:33060+ ssl training SQL > CREATE TABLE Customer(cust_id int NOT NULL AUTO_INCREMENT PRIMARY KEY, cust_name varchar(255) NOT NULL, product varchar(255) NOT NULL, quantity int NOT NULL, total_price int NOT NULL);
Query OK, 0 rows affected (0.0644 sec)
```

```
MySQL localhost:33060+ ssl training SQL > show columns from Customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	int	NO	PRI	NULL	auto_increment
cust_name	varchar(255)	NO		NULL	
product	varchar(255)	NO		NULL	
quantity	int	NO		NULL	
total_price	int	NO		NULL	

```
5 rows in set (0.0023 sec)
```

2. Use Sequence/Auto Increment for Incrementing Customer ID and insert 5 customer records to the table Customers

```
MySQL localhost:33060+ ssl training SQL > Insert into Customers(cust_name, product, quantity, total_price) values
-> ("Abhishek Dubey", "Shirt", 2, 1000);
ERROR: 1146: Table 'training.customers' doesn't exist
MySQL localhost:33060+ ssl training SQL > Insert into Customer(cust_name, product, quantity, total_price) values ("
Abhishek Dubey", "Shirt", 2, 1000);
Query OK, 1 row affected (0.0112 sec)
MySQL localhost:33060+ ssl training SQL > Insert into Customer(cust_name, product, quantity, total_price) values ("
Abhishek Banerjee", "TShirt", 3, 1500);
Query OK, 1 row affected (0.0098 sec)
MySQL localhost:33060+ ssl training SQL > Insert into Customer(cust_name, product, quantity, total_price) values ("
Swaraj", "Jacket", 4, 2000);
Query OK, 1 row affected (0.0108 sec)
MySQL localhost:33060+ ssl training SQL > Insert into Customer(cust_name, product, quantity, total_price) values ("
Arjun", "Wallet", 5, 2500);
Query OK, 1 row affected (0.0103 sec)
MySQL localhost:33060+ ssl training SQL > Insert into Customer(cust_name, product, quantity, total_price) values ("
Zulfa", "Pants", 6, 3000);
Query OK, 1 row affected (0.0103 sec)
```

### 3. Alter the table by adding one column 'price\_per\_qnty'

```
MySQL localhost:33060+ ssl training SQL > Alter table Customer
-> add column price_per_quantity int NOT NULL;
Query OK, 0 rows affected (0.0393 sec)
```

Records: 0 Duplicates: 0 Warnings: 0

```
MySQL localhost:33060+ ssl training SQL > select * from Customer;
```

cust_id	cust_name	product	quantity	total_price	price_per_quantity
1	Abhishek Dubey	Shirt	2	1000	0
2	Abhishek Banerjee	TShirt	3	1500	0
3	Swaraj	Jacket	4	2000	0

### 4. Create view 'Cust\_View' on Customer displaying Customer ID, Customer nam.

```
MySQL localhost:33060+ ssl training SQL > CREATE VIEW Cust_View AS Select cust_id, cust_name from Customer;
Query OK, 0 rows affected (0.0157 sec)
```

```
MySQL localhost:33060+ ssl training SQL > select * from Cust_view;
```

cust_id	cust_name
1	Abhishek Dubey
2	Abhishek Banerjee
3	Swaraj
4	Anjun
5	Zulfa

5 rows in set (0.0045 sec)

### 5. Update the view 'Cust\_view' to display customer ID, product, total price

```
MySQL localhost:33060+ ssl training SQL > CREATE or REPLACE VIEW Cust_View AS Select cust_id, product, total_price f
rom Customer ;
Query OK, 0 rows affected (0.0156 sec)
```

```
MySQL localhost:33060+ ssl training SQL > select * from Cust_view;
```

cust_id	product	total_price
1	Shirt	1000
2	TShirt	1500
3	Jacket	2000
4	Wallet	2500
5	Pants	3000

5 rows in set (0.0011 sec)

## 6. Drop the view 'Cust\_View'

```
MySQL localhost:33060+ ssl training SQL > drop view Cust_view;  
Query OK, 0 rows affected (0.0146 sec)
```

## 7. Create index 'Cust\_index'

```
MySQL localhost:33060+ ssl training SQL > create index index1  
-> on Customer (cust_name, product);  
Query OK, 0 rows affected (0.0713 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

## 8. Drop index

**DROP INDEX index1 ON Customer;**

## 9. Use auto increment for incrementing Customer ID

**CREATE TABLE Customer(cust\_id int NOT NULL  
AUTO\_INCREMENT PRIMARY KEY, cust\_name varchar(255) NOT  
NULL, product varchar(255) NOT NULL, quantity int NOT NULL,  
total price int NOT NULL);**

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

```
MySQL localhost:33060+ ssl training SQL > SELECT Customer_details.cust_id, Customer_details.cust_name, Customer_details.total_price from Customer AS Customer_details;  
+-----+-----+-----+  
| cust_id | cust_name      | total_price |  
+-----+-----+-----+  
| 1 | Abhishek Dubey | 1000 |  
| 2 | Abhishek Banerjee | 1500 |  
| 3 | Swaraj | 2000 |  
| 4 | Arjun | 2500 |  
| 5 | Zulfa | 3000 |  
+-----+-----+-----+  
5 rows in set (0.0010 sec)
```

## 11. Drop the table Customers

```
MySQL localhost:33060+ ssl training SQL > drop table Customer;  
Query OK, 0 rows affected (0.0601 sec)
```