

## 1.Create Database

Ans. create database management(database created)

Use management(switched to management)

```
ishrat@ishrat:~ $ sudo mysql
[sudo] password for ishrat:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)

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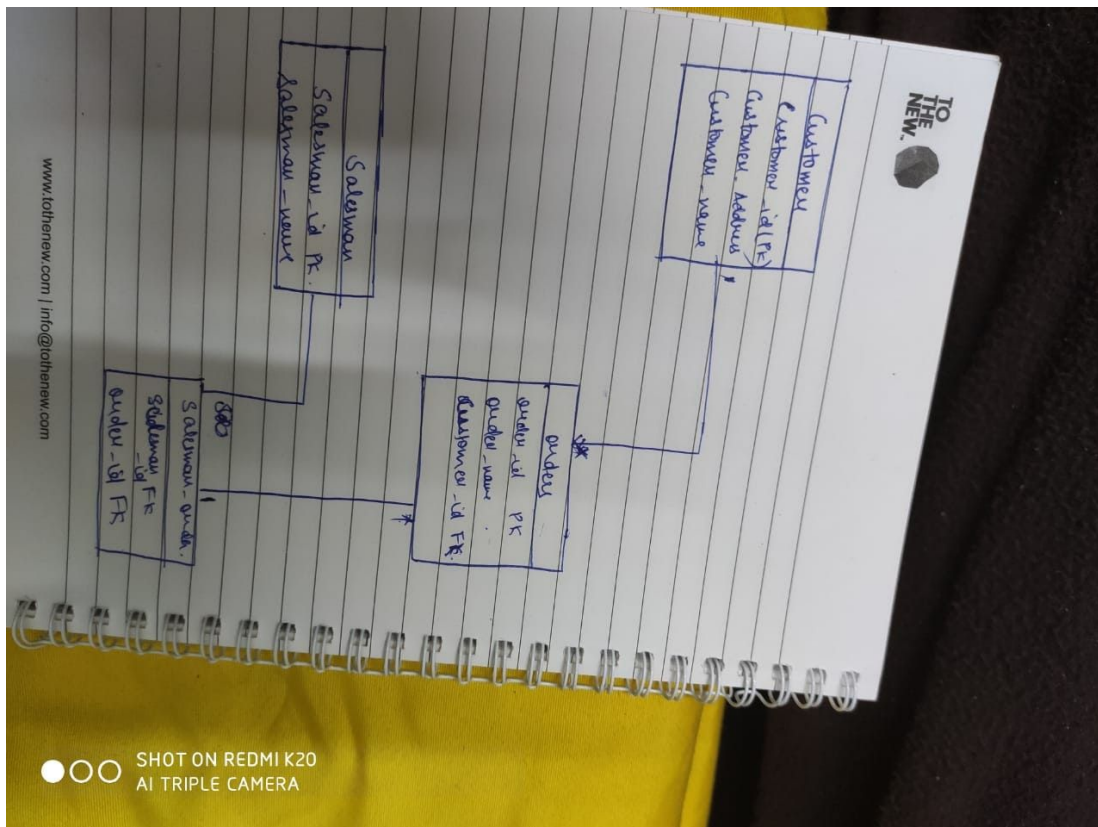
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database management;
Query OK, 1 row affected (0.00 sec)

mysql> use management
Database changed
mysql>
```

## 2.create schema

Ans.



### 3.Create tables

Ans. Commands used: create table table\_name;

Show tables;

```
mysql> create table customer ( customer_id varchar(255), Customer_name varchar(255), address varchar(255), primary key(customer_id) );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create table orders( order_id varchar(255) primary key , order_name varchar(255),customer_id varchar(255), foreign key (customer_id) references customer(customer_id) );
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table salesman(
-> salesman_id varchar(255),
-> salesman_name varchar(255),
-> primary key(salesman_id)
-> );
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table salesman_order( salesman_id varchar(255),
-> order_id varchar(255),
-> foreign key (salesman_id) references salesman(salesman_id),
-> foreign key (order_id) references orders(order_id)
-> );
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_management |
+-----+
| customer              |
| orders                |
| salesman              |
| salesman_order        |
+-----+
4 rows in set (0.00 sec)
```

4.Insert sample data.

Ans.Inserting into customer

```
mysql> insert into customer values("c1","Ashish","134-NewStreet");
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into customer values("c2","ben","139-bakerStreet");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from customer;
+-----+-----+-----+
| customer_id | Customer_name | address          |
+-----+-----+-----+
| c1          | Ashish        | 134-NewStreet    |
| c2          | ben           | 139-bakerStreet  |
| c3          | carol         | 139-pigsStreet   |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

## Inserting into orders

```
mysql> insert into orders values("01","Prod1","c1");
Query OK, 1 row affected (0.01 sec)

mysql> insert into orders values("02","Prod2","c2");
Query OK, 1 row affected (0.01 sec)

mysql> insert into orders values("03","Prod3","c2");
Query OK, 1 row affected (0.02 sec)

mysql> insert into orders values("04","Prod4","c3");
Query OK, 1 row affected (0.01 sec)

mysql> select * from orders;
+-----+-----+-----+
| order_id | order_name | customer_id |
+-----+-----+-----+
| 01      | Prod1      | c1          |
| 02      | Prod2      | c2          |
| 03      | Prod3      | c2          |
| 04      | Prod4      | c3          |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

## Inserting into salesman

```
mysql> insert into salesman values("s1","xanther");
Query OK, 1 row affected (0.01 sec)

mysql> insert into salesman values("s2","yohan");
Query OK, 1 row affected (0.01 sec)

mysql> select * from salesman;
+-----+-----+
| salesman_id | salesman_name |
+-----+-----+
| s1          | xanther       |
| s2          | yohan         |
+-----+-----+
2 rows in set (0.00 sec)
```



Inserting into salesman\_order

```
mysql> insert into salesman_order values("s1","01");
Query OK, 1 row affected (0.01 sec)

mysql> insert into salesman_order values("s1","02");
Query OK, 1 row affected (0.01 sec)

mysql> insert into salesman_order values("s2","03");
Query OK, 1 row affected (0.00 sec)

mysql> insert into salesman_order values("s2","04");
Query OK, 1 row affected (0.01 sec)

mysql> select * from salesman_order;
+-----+-----+
| salesman_id | order_id |
+-----+-----+
| s1          | 01       |
| s1          | 02       |
| s2          | 03       |
| s2          | 04       |
+-----+-----+
4 rows in set (0.00 sec)
```

5.Find the sales person have multiple orders.

Ans..

```
mysql> select count(*) as count, salesman_id from salesman_order group by salesman_id having count>1;
+-----+-----+
| count | salesman_id |
+-----+-----+
| 2     | s1          |
| 2     | s2          |
+-----+-----+
2 rows in set (0.00 sec)
```

6.Find the all sales person details along with order details

```
mysql> select salesman.salesman_id , salesman.salesman_name , salesman_order.order_id from salesman,salesman_order where salesman.salesman_id = salesman_order.salesman_id;
```

salesman_id	salesman_name	order_id
s1	xanther	01
s1	xanther	02
s2	yohan	03
s2	yohan	04

4 rows in set (0.01 sec)

7.Create index.

Ans. create index i on customer(customer\_id);

```
mysql> create index i on customer(customer_id);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

8.How to show index on a table.

Ans. show indexes from customer;

```
mysql> show indexes from customer;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment
customer	0	PRIMARY	1	customer_id	A	2		NULL	NULL	BTREE	
customer	1	i	1	customer_id	A	3		NULL	NULL	BTREE	

2 rows in set (0.00 sec)

9. Find the order number, sale person name, along with the customer to whom that order belongs to.

Ans.

```
mysql> SELECT orders.order_id, orders.customer_id, salesman.salesman_name
-> FROM orders
-> INNER JOIN salesman_order ON orders.order_id = salesman_order.order_id
-> INNER JOIN salesman ON salesman_order.salesman_id = salesman.salesman_id;
+-----+-----+-----+
| order_id | customer_id | salesman_name |
+-----+-----+-----+
| 01      | c1          | xanther       |
| 02      | c2          | xanther       |
| 03      | c2          | yohan         |
| 04      | c3          | yohan         |
+-----+-----+-----+
4 rows in set (0.01 sec)
```