# **ASSIGNMENT-3**

Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers

#### 1. Create databases

```
mysql> create database sale;
Query OK, 1 row affected (0.00 sec)
mysql> [
```

### 2. Design Schema

```
mysql> desc customer;
| Field | Type
                         | Null | Key | Default | Extra
 cid | int(11) | NO
cname | varchar(20) | YES
                                                      auto_increment
                                           NULL
2 rows in set (0.00 sec)
mysql> desc salesper;
| Field | Type
                         | Null | Key | Default | Extra
 sid | int(11) | NO
sname | varchar(20) | YES
                                  | PRI | NULL
                                                      auto_increment
                                          NULL
2 rows in set (0.00 sec)
mysql> desc orders;
| Field | Type
                         | Null | Key | Default | Extra
 oid
           int(11)
                           NO
                                   PRI
                                          NULL
                                                      auto_increment
 otype | varchar(20) |
cu_id | int(11) |
sa_id | int(11) |
                                          NULL
                           YES
                                   MUL
                                          NULL
                           YES
                                 I MUL
                                          NULL
4 rows in set (0.00 sec)
mysql> 🗌
```

#### 3. Create table

```
mysql> create table customer (cid int primary key AUTO_INCREMENT,cname varchar(20));
Query OK, 0 rows affected (0.05 sec)

mysql> create table salesper (sid int primary key AUTO_INCREMENT,sname varchar(20));
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table orders(oid int primary key auto_increment, otype varchar(20),cu_id int, foreign key(cu_id) references customer(cid),sa_id int, foreign key(sa_id) references salesper(sid));
Query OK, 0 rows affected (0.05 sec)
mysql> [
```

## 4. Insert sample data

```
mysql> insert into customer (cname) values('tom');
Query OK, 1 row affected (0.03 sec)

mysql> insert into customer (cname) values('mike');
Query OK, 1 row affected (0.04 sec)

mysql> insert into customer (cname) values('robert');
Query OK, 1 row affected (0.03 sec)

mysql> insert into salesper (sname) values('tim');
Query OK, 1 row affected (0.04 sec)

mysql> insert into salesper (sname) values('matt');
Query OK, 1 row affected (0.03 sec)

mysql> insert into salesper (sname) values('stefan');
Query OK, 1 row affected (0.03 sec)

mysql> insert into orders (odesc,cu_id,sa_id) values('moblie',1,2);
ERROR 1054 (42522): Unknown column 'odesc' in 'field list'
mysql> insert into orders (otype,cu_id,sa_id) values('moblie',1,2);
Query OK, 1 row affected (0.03 sec)

mysql> insert into orders (otype,cu_id,sa_id) values('dress',3,2);
Query OK, 1 row affected (0.03 sec)

mysql> insert into orders (otype,cu_id,sa_id) values('dress',3,2);
Query OK, 1 row affected (0.03 sec)

mysql> insert into orders (otype,cu_id,sa_id) values('dress',2,1);
Query OK, 1 row affected (0.04 sec)
```

#### 5. Find the sales person have multiple orders.

```
mysql> select sname,oid from salesper join orders on salesper.sid=orders.sa_id and 1<(select COUNT(*)from orders where salesper.sid=orders.sa_id);

+-----+

| sname | oid |

+-----+

| matt | 1 |

| matt | 2 |

+-----+

2 rows in set (0.00 sec)

mysql> 

| mysql> |
```

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

#### 7. Create index

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

8. How to show index on a table

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