

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

q-1 Create Database

```
mysql> create database session3;  
Query OK, 1 row affected (0.00 sec)  
  
mysql> use session3;  
Database changed
```

q-2 Design Schema

```
mysql> create table customer  
-> (  
-> id int primary key auto_increment,  
-> name varchar(30),  
-> state varchar(10),  
-> pincode bigint  
-> );  
Query OK, 0 rows affected (0.25 sec)
```

```
mysql> create table sales  
-> (  
-> s_id int primary key auto_increment,  
-> name varchar(20)  
-> );  
Query OK, 0 rows affected (0.30 sec)
```

```
mysql> create table order_del  
-> (  
-> order_id int primary key auto_increment,  
-> order_name varchar(20),  
-> qty int,  
-> price double,  
-> cust_id int,  
-> sales_id int,  
-> foreign key (cust_id) references customer(id),  
-> foreign key(sales_id) references sales(s_id)  
-> );  
Query OK, 0 rows affected (0.34 sec)
```

q-3 Create tables

```
siddharth@siddharth: ~  
File Edit View Search Terminal Help  
mysql> desc customer;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type          | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| id    | int(11)       | NO   | PRI | NULL    | auto_increment |  
| name  | varchar(30)   | YES  |     | NULL    |                |  
| state | varchar(10)   | YES  |     | NULL    |                |  
| pincode | bigint(20)  | YES  |     | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.01 sec)  
  
mysql> desc order_del;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| order_id   | int(11)       | NO   | PRI | NULL    | auto_increment |  
| order_name | varchar(20)   | YES  |     | NULL    |                |  
| qty        | int(11)       | YES  |     | NULL    |                |  
| price      | double        | YES  |     | NULL    |                |  
| cust_id    | int(11)       | YES  | MUL | NULL    |                |  
| sales_id   | int(11)       | YES  | MUL | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
6 rows in set (0.00 sec)
```

```
mysql> desc sales;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type          | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| s_id  | int(11)       | NO   | PRI | NULL    | auto_increment |  
| name  | varchar(20)   | YES  |     | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
2 rows in set (0.01 sec)
```

q-4 Insert sample data

```
siddharth@siddharth: ~  
File Edit View Search Terminal Help  
mysql> insert into customer values(1,'Siddharth','Delhi',110032);  
Query OK, 1 row affected (0.05 sec)  
  
mysql> insert into customer values(2,'Aman','Delhi',110052);  
Query OK, 1 row affected (0.05 sec)  
  
mysql> insert into customer values(3,'Ram','Delhi',110052);  
Query OK, 1 row affected (0.03 sec)  
  
mysql> insert into customer values(4,'Sumit','Delhi',110092);  
Query OK, 1 row affected (0.05 sec)  
  
mysql> insert into customer values(5,'Param','Delhi',110062);  
Query OK, 1 row affected (0.05 sec)  
  
mysql> select * from customer;  
+-----+-----+-----+-----+  
| id | name      | state | pincode |  
+-----+-----+-----+-----+  
| 1  | Siddharth | Delhi | 110032  |  
| 2  | Aman      | Delhi | 110052  |  
| 3  | Ram       | Delhi | 110052  |  
| 4  | Sumit     | Delhi | 110092  |  
| 5  | Param     | Delhi | 110062  |  
+-----+-----+-----+-----+
```

```
siddharth@siddharth: ~
File Edit View Search Terminal Help
mysql> insert into sales values(1,'Dheeraj');
Query OK, 1 row affected (0.05 sec)

mysql> insert into sales values(2,'Raj');
Query OK, 1 row affected (0.04 sec)

mysql> insert into sales values(3,'Sandeep');
Query OK, 1 row affected (0.04 sec)

mysql> insert into sales values(4,'Parveen');
Query OK, 1 row affected (0.04 sec)

mysql> insert into sales values(5,'Pulkit');
Query OK, 1 row affected (0.03 sec)

mysql> select * from sales;
+-----+-----+
| s_id | name   |
+-----+-----+
| 1    | Dheeraj |
| 2    | Raj    |
| 3    | Sandeep |
| 4    | Parveen |
| 5    | Pulkit  |
+-----+-----+
```

```
mysql> select * from order_del;
+-----+-----+-----+-----+-----+-----+
| order_id | order_name | qty | price | cust_id | sales_id |
+-----+-----+-----+-----+-----+-----+
| 1 | Paneer | 1 | 200 | 1 | 1 |
| 2 | Dal | 2 | 400 | 3 | 1 |
| 3 | Burger | 4 | 200 | 5 | 2 |
| 4 | Pizza | 1 | 500 | 4 | 4 |
| 5 | Idli | 4 | 200 | 3 | 3 |
| 6 | Palak | 1 | 150 | 2 | 2 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

q-5 Find the sales person have multiple orders.

q-6 Find the all sales person details along with order details

```
mysql> select * from sales join order_del on sales.s_id=order_del.order_id;
+-----+-----+-----+-----+-----+-----+-----+-----+
| s_id | name   | order_id | order_name | qty | price | cust_id | sales_id |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1    | Dheeraj | 1 | Paneer | 1 | 200 | 1 | 1 |
| 2    | Raj | 2 | Dal | 2 | 400 | 3 | 1 |
| 3    | Sandeep | 3 | Burger | 4 | 200 | 5 | 2 |
| 4    | Parveen | 4 | Pizza | 1 | 500 | 4 | 4 |
| 5    | Pulkit | 5 | Idli | 4 | 200 | 3 | 3 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

q-7 Create index

```
mysql> alter table customer add index cid(id);
Query OK, 0 rows affected (0.33 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

q-8 How to show index on a table

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

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
customer	0	PRIMARY	1	id	A	4	NULL	NULL		BTREE		
customer	1	cid	1	id	A	5	NULL	NULL		BTREE		

2 rows in set (0.00 sec)

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

```
mysql> select order_id,sales.name,customer.name from order_del join sales on order_del.order_id=sales.s_id join customer on order_del.order_id=customer.id;
```

order_id	name	name
1	Dheeraj	Siddharth
2	Raj	Aman
3	Sandeep	Ram
4	Parveen	Sumit
5	Pulkit	Param

5 rows in set (0.03 sec)

```
mysql>
```