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 Database

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

2.Design Schema

```
mysql> show tables;
| Tables_in_session3 |
customer
orders
salesperson
3 rows in set (0.00 sec)
mysql> desc customer;
| cid | int(11) | NO | PRI | NULL | auto_increment |
| name | varchar(50) | YES | | NULL |
2 rows in set (0.00 sec)
mysql> desc salesperson;
sid | int(11) | NO | PRI | NULL | auto_increment |
name | varchar(50) | YES | | 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 |
 orders | varchar(50) | YES | NULL
 osid | int(11) | YES | MUL | NULL
                 | YES | MUL | NULL
      | int(11)
 ocid
```

3. Create tables

```
mysql> create table customer(cid int primary key auto_increment,name varchar(50));
Query OK, 0 rows affected (0.05 sec)
mysql> create table salesperson(sid int primary key auto_increment,name varchar(50));
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> create table orders(oid int primary key auto_increment,orders varchar(50),osid int,ocid int,foreign key(osid) references salesperson(si
d),foreign key(ocid) references customer(cid)) ;
Query OK, 0 rows affected (0.05 sec)
```

4.Insert sample data

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

mysql> insert into customer values(2,'Ashish'),(3,'Ashu');
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql>
mysql>
mysql> select * from customer;
+----+
| cid | name |
+----+
| 1 | Jay |
| 2 | Ashish |
| 3 | Ashu |
+----+
3 rows in set (0.00 sec)
mysql>

mysql>
```

```
mysql> desc orders;
                                 | Null | Key | Default | Extra
 | Field | Type
  oid | int(11) | NO | PRI | NULL
orders | varchar(50) | YES | | NULL
osid | int(11) | YES | MUL | NULL
ocid | int(11) | YES | MUL | NULL
 oid
                                                                    | auto_increment |
4 rows in set (0.00 sec)
mysql> insert into orders values(1,'AT Bag',1,1),(2,'Cookware',2,2),(3,'TV',3,3),(4,'TV',3,1),(5,'cookware',3,3);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from orders;
 | oid | orders | osid | ocid |
                              1 |
2 |
3 |
3 |
3 |
                                       1 |
2 |
3 |
     1 | AT Bag
     2 | Cookware
3 | TV
     4 | TV |
5 | cookware |
5 rows in set (0.00 sec)
mysql>
```

5 .Find the sales person have multiple orders.

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

```
nysql> select orders,name from orders,salesperson where orders.osid=salesperson.sid;
 orders
        name
 AT Bag | Divya
           Shivani
 Cookware |
 AT_Bag
            Shivani
            Ujju
          | Ujju
 cookware | Ujju
rows in set (0.01 sec)
ysql> select name,orders from salesperson left outer join orders on salesperson.sid=orders.osid;
        | orders
         | AT Bag
 Divya
 Shivani | Cookware
Shivani | AT_Bag
 Ujju
           TV
 Ujju
Ujju
         j TV
         | cookware
         NULL
 Jay
 rows in set (0.00 sec)
nysql>
```

7. Create index

```
mysql> create index session3 on orders(oid);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

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