1.Create Database

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

2.Design Schema

```
mysql> desc customers;
 Field | Type
                    | Null | Key | Default | Extra
 cid
       | int(11)
                     NO
                            | PRI | NULL
                                           | auto increment
 cname | varchar(40) | YES |
                                  NULL
2 rows in set (0.00 sec)
mysql> desc salesPerson;
 Field | Type
                     | Null | Key | Default | Extra
 sid | int(11)
                            | PRI | NULL
                                           auto increment
                     NO
 sname | varchar(40) | 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
odesc
         | varchar(40) | YES
                                     NULL
 cust_id | int(11)
                        YES
                               MUL | NULL
 sp id
         | int(11)
                       | YES
                             | MUL | NULL
4 rows in set (0.00 sec)
```

3.Create tables

```
mysql> create table customers(cid int primary key auto_increment, cname varchar(40));
Query OK, 0 rows affected (0.36 sec)

mysql> create table salesPerson(sid int primary key auto_increment, sname varchar(40));
Query OK, 0 rows affected (0.32 sec)

mysql> create table orders(oid int primary key auto_increment, odesc varchar(40), cust_id int, foreign key(cust_id) references customers(cid),
sp_id int, foreign key(sp_id) references salesPerson(sid));
Query OK, 0 rows affected (0.73 sec)
```

4.Insert sample data

```
mysql> insert into customers(cname) values('John');
Ouery OK, 1 row affected (0.06 sec)
mysql> insert into customers(cname) values('Adam');
Query OK, 1 row affected (0.10 sec)
mysql> insert into customers(cname) values('Steve');
Query OK, 1 row affected (0.05 sec)
mysql> insert into salesPerson(sname) values('Jolly');
Query OK, 1 row affected (0.04 sec)
mysql> insert into salesPerson(sname) values('Tom');
Query OK, 1 row affected (0.08 sec)
mysql> insert into salesPerson(sname) values('Mike');
Query OK, 1 row affected (0.09 sec)
mysql> insert into orders(odesc, cust id, sp id) values('Laptop', 1, 2);
Query OK, 1 row affected (0.09 sec)
mysql> insert into orders(odesc, cust_id, sp_id) values('Keyboard', 3, 2);
Query OK, 1 row affected (0.09 sec)
mysql> insert into orders(odesc, cust_id, sp_id) values('Keyboard', 2, 1);
Query OK, 1 row affected (0.11 sec)
```

5. Find the sales person have multiple orders.

```
mysql> select sname from salesPerson INNER JOIN (select sp_id from orders group by sp_id having count(sp_id)>1) dup ON dup.sp_id=salesPerson.s
id;
+-----+
| sname |
+-----+
| Tom |
```

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

7.Create index

```
mysql> create index oid_index on orders(oid);
Query OK, 0 rows affected (0.40 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

```
nysql> select o.oid, c.cname, s.sname
    -> from orders o
    -> JOIN customers c ON o.cust_id=c.cid
    -> JOIN salesPerson s ON o.sp_id=s.sid;
+----+
| oid | cname | sname |
+----+
| 1 | John | Tom |
| 2 | Steve | Tom |
| 3 | Adam | Jolly |
+----+
3 rows in set (0.00 sec)
```