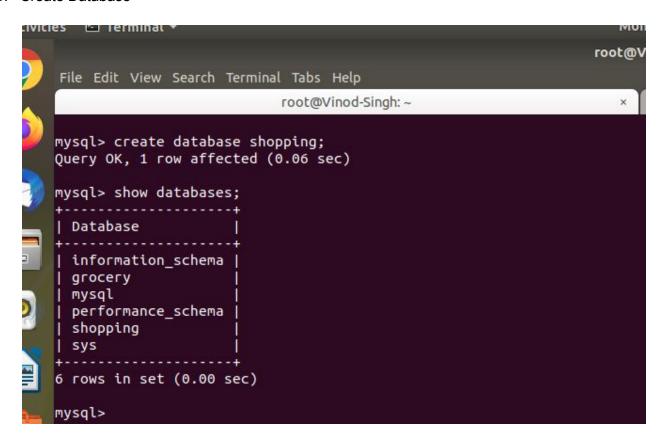
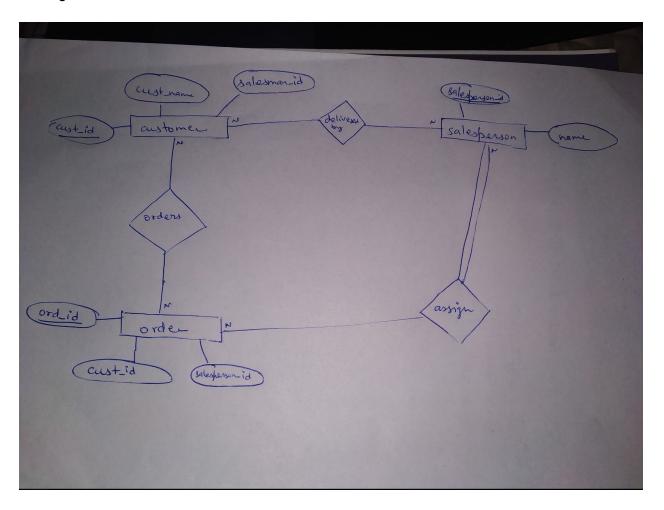
Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers

1. Create Database



2.Design Schema



In order table cust_id is foreign key which is related to the primary key of customer table.

Similarly the salesperson_id in order table is foreign key which is related to primary key of salesperson table

And salesperson_id in customer table is foreign key which is again references to primary key of salesperson table.

Also the salesperson entity shows total participation since it is willing to take multiple order.

3.Create tables

```
root@Vinod-Singh: ~ × vinod@

mysql> create table customer (cust_id int, cust_name varchar(20), salesman_id int);
Query OK, 0 rows affected (0.66 sec)

mysql> create table salesperson (salesperson_id int PRIMARY KEY, salesper_name varchar(20));
Query OK, 0 rows affected (0.58 sec)
```

```
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root@Vinod-Singh: ~ ×

mysql> create table orders (ord_id int PRIMARY KEY, cust_id int, salesperson_id int);
Query OK, 0 rows affected (0.60 sec)
```

	File Edit View Search Terminal Tabs Help
	root@Vinod-Singh: ~ ×
	mysql> desc orders;
	Field Type Null Key Default Extra
	ord_id
	3 rows in set (0.00 sec)
	mysql> desc customer;
	Field Type Null Key Default Extra
	cust_id
	3 rows in set (0.00 sec)
	mysql> desc salesperson; +
	Field
į	salesperson_id int(11) NO PRI NULL salesper_name varchar(20) YES NULL +
1	2 rows in set (0.00 sec)

4. Insert sample data

```
vities 🖾 Terminal 🔻
   File Edit View Search Terminal Tabs Help
                              root@Vinod-Singh: ~
  mysql> insert into customer values(1,'vinod',2);
  Query OK, 1 row affected (0.11 sec)
  mysql> insert into customer values(2,'rahul',1);
  Query OK, 1 row affected (0.10 sec)
  mysql> insert into customer values(3,'rajat',2);
  Query OK, 1 row affected (0.10 sec)
  mysql> insert into customer values(4,'yaman',3);
  Query OK, 1 row affected (0.09 sec)
  mysql> insert into customer values(5,'shinghal',1);
  Query OK, 1 row affected (0.06 sec)
  mysql> insert into customer values(6,'aman',4);
  Query OK, 1 row affected (0.10 sec)
  mysql> select * from customer;
   | cust_id | cust_name | salesman id |
          1 | vinod
                                     2
          2 | rahul
                                     1 |
          3 | rajat
                                     2
          4 | yaman
                                     3
          5 | shinghal
                                     1
          6 | aman
                                     4
  6 rows in set (0.00 sec)
```

```
vities 🖾 Terminal 🔻
   File Edit View Search Terminal Tabs Help
                             root@Vinod-Singh: ~
  mysql> insert into customer values(1,'vinod',2);
  Query OK, 1 row affected (0.11 sec)
  mysql> insert into customer values(2,'rahul',1);
  Ouery OK, 1 row affected (0.10 sec)
  mysql> insert into customer values(3,'rajat',2);
  Query OK, 1 row affected (0.10 sec)
  mysql> insert into customer values(4,'yaman',3);
  Query OK, 1 row affected (0.09 sec)
  mysql> insert into customer values(5,'shinghal',1);
  Ouery OK, 1 row affected (0.06 sec)
  mysql> insert into customer values(6, 'aman',4);
  Query OK, 1 row affected (0.10 sec)
  mysql> select * from customer;
  | cust id | cust name | salesman id |
          1 | vinod
                                     2
          2 | rahul
                                    1
         3 | rajat
                                    2 |
         4 | yaman
                                    3
         5 | shinghal
                                    1
          6 aman
                                    4
  6 rows in set (0.00 sec)
```

root@Vinod-Singh: ~

```
mysql> insert into orders values(1,2,1);
Query OK, 1 row affected (0.09 sec)
mysql> insert into orders values(2,1,2);
Ouery OK, 1 row affected (0.09 sec)
mysql> insert into orders values(3,6,4);
Query OK, 1 row affected (0.05 sec)
mysql> insert into orders values(3,4,3);
ERROR 1062 (23000): Duplicate entry '3' for key 'PRIMARY'
mysql> insert into orders values(4,4,3);
Query OK, 1 row affected (0.05 sec)
mysql> insert into orders values(5,3,2);
Query OK, 1 row affected (0.10 sec)
mysql> insert into orders values(6,5,1);
Ouery OK, 1 row affected (0.09 sec)
mysql> select * from orders;
ord id | cust id | salesperson id |
     1 | 2 | 2 | 1 |
                                1 |
                                2 |
                                4 |
      3 |
              6
      4
              4 |
                                3 I
      5 |
                3 |
                                2 |
      6 | 5 |
6 rows in set (0.00 sec)
```

5. Find the sales person have multiple orders.



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



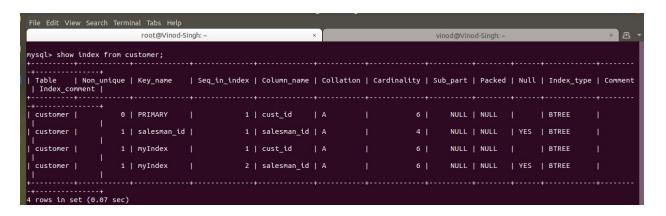
7.Create index

```
File Edit View Search Terminal Tabs Help

root@Vinod-Singh: ~

mysql> create index myIndex On customer(cust_id, salesman_id);
Query OK, 0 rows affected (0.41 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

