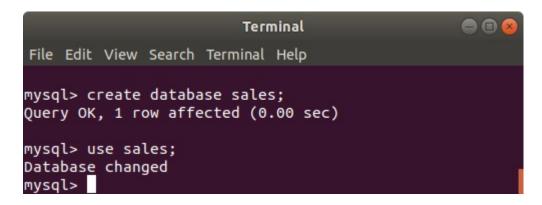
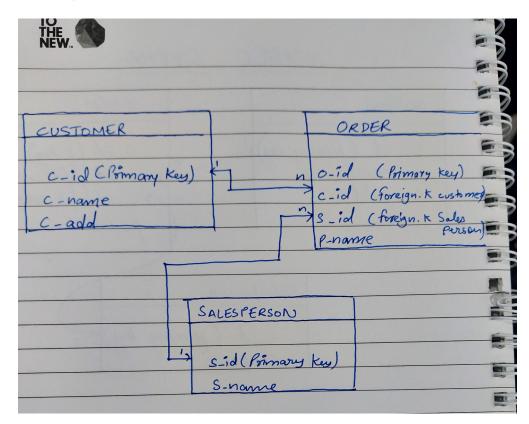
Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers

1. Create Database



2. Design Schema



3. Create tables

4. Insert sample data

```
ashutosh@ashutosh: ~
File Edit View Search Terminal Help
mysql> insert into salesperson (s_id,s_name) values("S1","X");
Query OK, 1 row affected (0.02 sec)
mysql> insert into salesperson (s id,s name) values("S2","Y");
Ouery OK, 1 row affected (0.01 sec)
mysql> insert into salesperson (s id,s name) values("S2","Z");
ERROR 1062 (23000): Duplicate entry 'S2' for key 'PRIMARY'
mysql> insert into salesperson (s_id,s_name) values("S3","Z");
Query OK, 1 row affected (0.01 sec)
mysql> select * from salesperson;
| s_id | s_name |
I S1
       X
 52
       Z
 53
3 rows in set (0.00 sec)
mysql>
```

```
ashutosh@ashutosh: ~
File Edit View Search Terminal Help
mysql> insert into customers (c_id,c_name,customer_add) values("C1","Ashutosh","Noid
Query OK, 1 row affected (0.01 sec)
mysql> insert into customers (c_id,c_name,customer_add) values("C2","subarno","delhi
");
Query OK, 1 row affected (0.01 sec)
mysql> insert into customers (c_id,c_name,customer_add) values("C3","anupam","gurgao
n");
Query OK, 1 row affected (0.00 sec)
mysql> select * from customers;
| c_id | c_name | customer_add |
I C1
       | Ashutosh | Noida
 C2
       | subarno | delhi
| C3
       | anupam | gurgaon
3 rows in set (0.00 sec)
mvsal>
```

```
ashutosh@ashutosh: ~
File Edit View Search Terminal Help
        | varchar(2) | YES
| s_id
                              | MUL | NULL
| p_name | varchar(10) | YES
                                    NULL
4 rows in set (0.00 sec)
mysql> insert into orders (o_id,c_id,s_id,p_name) values("01","C3","S2","car");
Query OK, 1 row affected (0.01 sec)
mysql> insert into orders (o_id,c_id,s_id,p_name) values("O2","C1","S2","pencil");
Query OK, 1 row affected (0.01 sec)
mysql> insert into orders (o_id,c_id,s_id,p_name) values("03","C2","S1","phone");
Query OK, 1 row affected (0.02 sec)
mvsal>
mysql> insert into orders (o_id,c_id,s_id,p_name) values("04","C1","S3","pen");
Query OK, 1 row affected (0.01 sec)
mysql> insert into orders (o_id,c_id,s_id,p_name) values("05","C2","S3","pen");
Query OK, 1 row affected (0.01 sec)
mysql> insert into orders (o_id,c_id,s_id,p_name) values("06","C2","S2","pant");
Query OK, 1 row affected (0.01 sec)
mysql> select * from orders;
| o_id | c_id | s_id | p_name |
01
       | C3
              | S2
                     car
        C1
               52
                      pencil
 02
 03
                      phone
 04
        C1
               S3
                      pen
 05
       C2
               S3
                      pen
       I C2
 06
               52
                     pant
6 rows in set (0.00 sec)
mysql>
```

5. Find the sales person have multiple orders.

```
File Edit View Search Terminal Help

mysql> select s.s_id,s.s_name from salesperson s left join orders o on s.s_id = o.
s_id group by s.s_id having count(*) > 1;
+----+
| s_id | s_name |
+----+
| S2 | Y |
| S3 | Z |
+----+
2 rows in set (0.00 sec)

mysql>
```

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

```
Terminal
File Edit View Search Terminal Help
mysql> select s.s_id,s.s_name,o.o_id,o.c_id,o.p_name from salesperson s inner join
orders o on s.s_id = o.s_id;
| s_id | s_name | o_id | c_id | p_name |
            | 01
                   | C3
                     | C1
 S2
             02
                            | pencil
             03
                     | C2
                            | phone
 S1
      X
             04
 S3
      | Z
                   | C1
                            | pen
 S3
      | Z
              05
                     | C2
                            | pen
          06 | C2
 S2
                          | pant
6 rows in set (0.01 sec)
mysql>
```

7. Create index

```
mysql> alter table customers add index customer(c_name);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

8. How to show index on a table

```
nysql> mysql> show index from customers;
Table
         | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_c
omment |
                   0 | PRIMARY |
                                                       I A I
                                                                          2 | NULL | NULL |
customers |
                                        1 | c_id
                                                                                                      | BTREE
                   1 | customer |
                                         1 | c_name
                                                       | A
                                                                          2 |
                                                                                   NULL | NULL | YES | BTREE
 customers |
rows in set (0.00 sec)
```

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

```
mysql> select o_id , s_name, c_name from customers c inner join orders o o n c.c_id = o.c_id inner join salesperson s on o.s_id = s.s_id;
| subarno
| anupam
 03
        X
        | Y
  01
       ΙY
  02
                | Ashutosh
       | Y
                  | subarno
  06
        | Z
                  Ashutosh
  04
      | Z | subarno
  05
6 rows in set (0.01 sec)
```