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

Command – create database on\_sell;

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

mysql> use on_sell;
Database changed

mysql> create table created atabase (created in its NOT NULL AUTO THEOGRAPH)
```

## 2. Design Schema

Schema is the logical structure of the database.

```
mysql> desc customers;
| Field
                   | Type
                                 | Null | Key | Default | Extra
cust_id | int(11) | NO | PRI | NULL
| customer_name | varchar(20) | YES | NULL
2 rows in set (0.01 sec)
mvsal> desc salesperson:
| Field
              Type
                                | Null | Key | Default | Extra
 sales_id | int(11) | NO | PRI | NULL
sales_name | varchar(20) | YES | | NULL
                                                            | auto_increment
2 rows in set (0.00 sec)
mysql> desc orders;
| Field
                             | Null | Key | Default | Extra
                                NO PRI NULL
YES | NUL NULL
YES MUL NULL
YES MUL NULL
 order_id | int(11) | NO
order_name | varchar(20) | YES
                                                             | auto increment
               int(11)
int(11)
  s_id
 rows in set (0.01 sec)
```

### 3. Create Tables

```
mysql> Create table customers (cust_id int NOT NULL AUTO_INCREMENT ,
-> customer_name varchar(20),
-> primary key(cust_id);
ERROR 1964 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 3
mysql> Create table customers (cust_id int NOT NULL AUTO_INCREMENT ,customer_name varchar(20),primary key(cust_id));
Query OK, 0 rows affected (0.03 sec)

mysql> Create table salesperson (sales_id int NOT NULL AUTO_INCREMENT ,
-> sales_name varchar(20),
-> primary key(sales_id));
Query OK, 0 rows affected (0.03 sec)

mysql> Create table orders (order_id int NOT NULL AUTO_INCREMENT ,
-> order_name varchar(20),
-> primary key(order_id),
-> c_id int,
-> Sole Int,
-> FOREIGN KEY(c_id) REFERENCES customers(cust_id),
-> FOREIGN KEY(c_id) REFERENCES salesperson(sales_id));
Query OK, 0 rows affected (0.03 sec)
```

4. Find the sales person have multiple orders.

select sales\_name,order\_id from salesperson JOIN orders ON salesperson.sales\_id=orders.s\_id and 1<(select count(\*) from orders where salesperson.sales\_id=orders.s\_id);

```
| nysql> select sales_name, order_id from salesperson JOIN orders ON salesperson.sales_id=orders.s_id and i<(select count(*) from orders where salesperson.sales_id=orders.s_id and i<(select count(
```

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

select s.sales\_id,s.sales\_name,o.order\_id from salesperson s , orders o where s.sales\_id=o.s\_id;

# 6. Create index.

Create index order\_id\_index on salesperson(sales\_id);

```
mysql> create index order_id_index on salesperson(sales_id);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

### 7. How to show index on a table

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

Select o.order\_id,s.sales\_name,c.customer\_name from orders o,salesperson s,customers c where o.c\_id=c.cust\_id AND o.s\_id=s.sales\_id;

```
nysql> select o.order_td,s.sales_name,c.custoner_name from orders o,salesperson s, customers c where o.c_id=c.cust_td AND o.s_id=s.sales_id;
order_id | sales_name | customer_name |
       4 | Rahul
                      Sonia
        8 | Vishwas
                       Gargi
        5 | Harshit
                      Devesh
        2 | Sumit
                       Sonia
        7 | Sunit
                       Devesh
       1 | Sarvesh
                       Anamika
                       Vishal
       6 | Sarvesh
       10 | Sarvesh
                       Sonia
        3 | Bindeshwar | Kshitija
        9 | Raj
10 rows in set (0.00 sec)
```