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

Q1. Create Database

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

Q2. Design Schema

```
mysql> desc customer;
| Field | Type | Null | Key | Default | Extra
| cust_name | varchar(10) | YES | NULL
| cust_phone | bigint(20) | YES |
                           NULL
| cust_email | varchar(10) | YES |
                          NULL
4 rows in set (0.00 sec)
mysql> desc salesman;
| Field
       | Type | Null | Key | Default | Extra
| salesman id | int(11) | NO | PRI | NULL
                                    | auto increment |
| salesman_name | varchar(10) | YES | MUL | NULL
2 rows in set (0.00 sec)
mysql> desc orders;
| order_sales_id | int(11) | YES | MUL | NULL
| order_cust_id | int(11) | YES | MUL | NULL
4 rows in set (0.00 sec)
mysql>
```

Q3. Create tables

```
Mysql> create table salesman(salesman_id int auto_increment primary key,salesman_name varchar);

ERROR 1064 (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 1

mysql> create table salesman(salesman_id int auto_increment primary key,salesman_name varchar(10));

Query OK, 0 rows affected (0.62 sec)

mysql> create table customer(cust_id int auto_increment primary key,cust_name varchar(10),cust_phone bigint,cust_email varchar(10));

Query OK, 0 rows affected (0.30 sec)

mysql> create table orders(order_id int auto_increment primary key,order_date datetime,order_sales_id int,order_cust_id int,foreign key (order_sales_id) references salesman(salesman_id), foreign key (order_cust_id) references customer(cust_order_sales_id int,order_cust_id int,foreign key (order_sales_id) references salesman(salesman_id), foreign key (order_cust_id) references customer(cust_id));

Query OK, 0 rows affected (0.34 sec)
```

Q4. Insert sample data

```
mysql> Insert into salesman values(1,'Henry');
Query OK, 1 row affected (0.06 sec)

mysql> Insert into customer values(1001,'Tushar',9718900520,'tushar.bansal@tothenew.com');
ERROR 1406 (22001): Data too long for column 'cust_email' at row 1
mysql> Insert into customer values(1001,'Tushar',9718900520,'tu@.com');
Query OK, 1 row affected (0.06 sec)

mysql> Insert into customer values(1002,'sam',971890644,'bv@.com');
Query OK, 1 row affected (0.05 sec)

mysql> Insert into customer values(1003,'Harry',9569890644,'bvrd@.com');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from orders;
| order_id | order_date
                              | order_sales_id | order_cust_id |
          1 | 2020-02-06 23:02:05 |
         2 | 2020-02-06 22:59:57 |
                                                     4
                                                                     1003
       3 | 2020-02-06 23:00:17 |
101 | 2020-02-06 22:59:04 |
                                                      2 |
                                                                     1003
                                                                     1001
4 rows in set (0.00 sec)
mysql> select * from customer;
| cust_id | cust_name | cust_phone | cust_email |
                         | 9718900520 | tu@.com
     1001 | Tushar
                        | 971890644 | bv@.com
| 9569890644 | bvrd@.com
| 9564890644 | brd@.com
     1002 | sam
1003 | Harry
                                          bvrd@.com
     1004 | Harman
4 rows in set (0.00 sec)
mysql> select * from salesman;
| salesman_id | salesman_name |
             1
                 Henry
                  Swastik
                  Ankit
                  Charu
             5 |
                 Dheeraj
5 rows in set (0.00 sec)
```

Q5. Find the sales person have multiple orders.

Q6. Find the all sales person details along with order details

Q7.Create index.

```
mysql> create index tush_index on salesman(salesman_name);
Query OK, 0 rows affected (0.33 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Q8. How to show index on a table

Q9. Find the order number, sale person name, along with the customer to whom that order belongs to.

For getting only order_id , salesman_name,customer_name----->