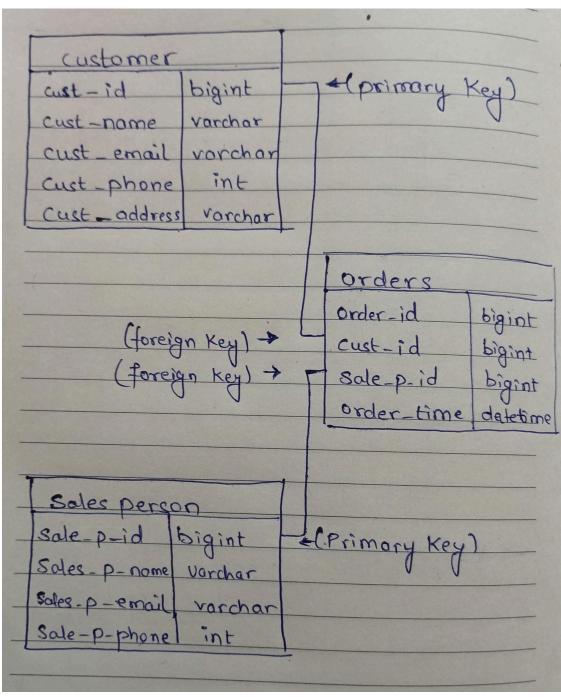
Q1)Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers. Create Database.

Q2) Design Schema

Ans 1 & 2. Schema of the



create database database_name command is used to create a database:

```
mysql> create database database_session;
Query OK, 1 row affected (0.01 sec)
```

show database command is used to display the databases:

Q3)Create tables

Ans.

1. Creating table for customer with attributes customer id, name, email, phone no, address:

2. Table sales_person:

```
mysql> create table sales_person(sale_p_id bigint not null, sales_p_name varchar(255), sales_p_email varchar(255), sale_p_phone int(10), primary key(sale_p_id));

Query OK, 0 rows affected, 1 warning (0.05 sec)

mysql> desc sales_person;

| Field | Type | Null | Key | Default | Extra |
| sale_p_id | bigint | NO | PRI | NULL | |
| sales_p_name | varchar(255) | YES | | NULL | |
| sales_p_email | varchar(255) | YES | | NULL | |
| sales_p_phone | int | YES | | NULL | |
| sale_p_phone | int | YES | | NULL | |
| tows in set (0.00 sec)
```

Table orders:

```
mysql> create table orders(order_id bigint not null, cust_id bigint, sale_p_id bigint, order_time datetime, primary key(order_id), foreign key(cust_id) references customer(cust_id), foreign key(sale_p_id));
Query OK, 0 rows affected (0.08 sec)

mysql> desc orders;

| Field | Type | Null | Key | Default | Extra |

| order_id | bigint | NO | PRI | NULL | |

| cust_id | bigint | YES | MUL | NULL | |

| sale_p_id | bigint | YES | MUL | NULL | |

| sale_p_id | bigint | YES | MUL | NULL | |

| order_time | datetime | YES | | NULL | |
```

Q4)Insert sample data.

Ans. Sample data insertion using insert into table_name command as follows:

1.

```
mysql> insert into customer (cust_id, cust_name, cust_email, cust_phone, cust_address)
-> values
-> (1, 'aarav patel', 'aarav.patel@abc.com', 987654321, 'mumbai, mh'),
-> (2, 'priya sharma', 'priya.sharma@abc.com', 876543210, 'bengaluru, ka'),
-> (3, 'rohan kumar', 'rohan.kumar@abc.com', 654321987, 'delhi, dl'),
-> (4, 'simran kaur', 'simran.kaur@abc.com', 543210876, 'chandigarh, pb');
Query OK, 4 rows affected (0.02 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

3.

Q5)Find the sales person have multiple orders.

Ans.

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

Q7)Create index

```
mysql> create index sale_per_indx on sales_person(sales_p_name, sales_p_email);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Q8)How to show index on a table

Table	Non_unique	Key_name							Index_comment		
sales_person	0	PRIMARY	sale_p_id	A	NULL	NULL		BTREE		YES	NULL
ales_person		sale_per_indx	sales_p_name	A	NULL	NULL	YES	BTREE		YES	NULL
sales_person		sale_per_indx	sales_p_email	A	NULL	NULL	YES	BTREE		YES	NULL

Q9)Find the order id, sale person name, along with the customer to whom that order belongs to

```
mysql> select odr.order_id, sp.sales_p_name, ctmr.cust_id, ctmr.cust_name, ctmr.cust_email from orders as odr inner join sales_person as sp on sp.sale_p_id = odr.sale_p_id inner join custome r as ctmr on ctmr.cust_id = odr.cust_id;

| order_id | sales_p_name | cust_id | cust_name | cust_email |

| 101 | ananya verma | 1 | aarav patel | aarav.patel@abc.com |

| 102 | ananya verma | 2 | prtya sharma | prtya.sharma@abc.com |

| 105 | isha reddy | 2 | prtya sharma | prtya.sharma@abc.com |

| 103 | vikram yadav | 3 | rohan kumar | rohan.kumar@abc.com |

| 106 | vikram yadav | 3 | rohan kumar | rohan.kumar@abc.com |

| 108 | vikram yadav | 3 | rohan kumar | sinran.kaur@abc.com |

| 109 | rows in set (0.00 sec)
```