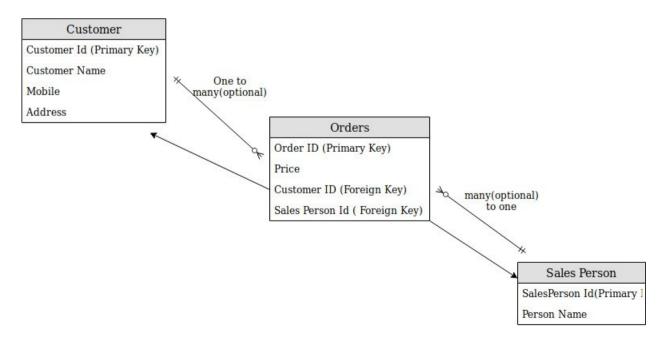
Ritesh Singh empId 3239 Introduction to Database

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

```
mysql> create table orders ( o_id int PRIMARY KEY, s_id int NOT NULL, c_id int(2
0) NOT NULL, o_name varchar(50),FOREIGN KEY (c_id) REFERENCES customer(cust_id),
FOREIGN KEY (s_id) REFERENCES sellers(s_id) );
Query OK, 0 rows affected (0.73 sec)
```

```
        mysql> desc customer;

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

        | cust_id | int(20) | NO | PRI | NULL | |

        | cust_name | char(50) | YES | | NULL | |

        | mobile_no | bigint(20) | YES | | NULL | |

        | address | varchar(50) | YES | | NULL | |

        | address | varchar(50) | YES | | NULL | |

        | rows in set (0.00 sec)

        mysql> desc sellers;

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

        | s_id | int(11) | NO | PRI | NULL | |

        | rows in set (0.00 sec)

        mysql> desc orders;

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

        | o_id | int(11) | NO | PRI | NULL | |

        | s_id | int(11) | NO | MUL | NULL | |

        | c_id | int(20) | NO | MUL | NULL | |

        | o_name | varchar(50) | YES | | NULL | |

        | rows in set (0.00 sec)
```

4. Insert sample data

```
mysql> insert into customer
    -> values(1,"Ritesh Singh",988888888,"a-32"),
    -> (2, "Vishal Sharma", 720000000, "gzb"),
    -> (3,"Rishabh","99999999","greno");
Query OK, 3 rows affected (0.08 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into sellers
    -> values(21, "Shiv"),
    -> (22, "Pratap");
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> insert into orders
    -> values(1011,22,1,"cola"),
    -> (1012,21,2,"pepsi"),
-> (1013,22,3,"cola");
Query OK, 3 rows affected (0.04 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql>
```

5. Find the sales person have multiple orders.

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

7. Create index

```
mysql> create index seller_id_index on orders(s_id);
Query OK, 0 rows affected (0.44 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