# **DATABASES EXERCISE, NISHANT VERMA**

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 customer(c_id bigint(20) NOT NULL, name varchar(50), pincode int(20),primary key(c_id));
Query OK, 0 rows affected (0.04 sec)

mysql> create table salesperson(s_id bigint(20) NOT NULL, s_name varchar(50),primary key(s_id));
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> create table orders(c_id bigint(20) NOT NULL,s_id bigint(20) NOT NULL,o_id bigint(20) NOT NULL,item varchar(40),primary key(o_id));
Query OK, 0 rows affected (0.05 sec)

mysql> ALTER TABLE orders add foreign key(s_id) references salesperson(s_id);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE orders add foreign key(c_id) references customer(c_id);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

#### 4.Insert sample data

```
mysql> insert into customer values(1,'nishant',110075);
Query OK, 1 row affected (0.04 sec)

mysql> insert into customer values(2,'nikhil',110018);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values(3,'nehal',110023);
Query OK, 1 row affected (0.04 sec)

mysql> insert into salesperson values(1,'nehal');
Query OK, 1 row affected (0.04 sec)

mysql> insert into salesperson values(2,'vishal');
Query OK, 1 row affected (0.01 sec)

mysql> insert into salesperson values(3,'harsh');
Query OK, 1 row affected (0.01 sec)
```

#### 5. Find the sales person have multiple orders.

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

```
nysql> select * from salesperson LEFT OUTER JOIN orders on salesperson.s id = orders.s id;
 s_id | s_name | c_id | s_id | o_id | item
                    1 |
    3
      | harsh |
                                  1 |
                            2 |
    2
        vishal |
                     2
                                       banana
                            1 |
2 |
                                   3 | orange
4 | toy
    1 | nehal
                    3 |
    2 | vishal
 rows in set (0.00 sec)
```

#### 7.Create index

#### 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