DBMS EXERCISE

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

```
mysql> show tables;
| Tables_in_sales |
customer
p order
salesman
3 rows in set (0.00 sec)
mysql> desc customer;
+----+
| Field | Type | Null | Key | Default | Extra |
| c_id | bigint(20) | NO | | NULL
| c_name | varchar(30) | NO
                          NULL
| c_city | varchar(100) | NO |
                          NULL
3 rows in set (0.00 sec)
mysql> desc p order;
| Field | Type | Null | Key | Default | Extra |
| NULL
o_date | date | YES |
                         NULL
4 rows in set (0.00 sec)
mysql> desc salesman;
| Field | Type | Null | Key | Default | Extra |
I NULL
                          NULL
| s_city | varchar(100) | NO
                           I NULL
```

3. Create tables

```
mysql> create table salesman (s_id bigint(20) NOT NULL, s_name varchar(30) NOT NULL, s_city varchar(100) NOT NULL);

mysql> create table p_order(o_id bigint(20) NOT NULL, o_name varchar(30) NOT NULL, o_amt bigint(30) NOT NULL, o_date date);

query OK, 0 rows affected (0.04 sec)

mysql> create table customer (c_id bigint(20) NOT NULL, c_name varchar(30) NOT NULL, c_city varchar(100) NOT NULL);

query OK, 0 rows affected (0.03 sec)
```

4. Insert sample data

```
mysql> insert into customer values ( 1 ,'shashank' , 'varanasi' );
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values (2 ,'gaurav' ,' mirzapur' ),(3 ,'mohit' ,'allahabad' );
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

5. Find the sales person have multiple orders.

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

```
mysql> select * from Salespeople inner join orders on Salespeople.snum=onum;
 snum | sname | city | onum | amt
                                                   | cnum | snum |
                                       odate
    1 | jayesh | ahmd |
                                  1000 | 2000-02-22 |
        mukesh | ahmd |
                          2
                                  1000 | 2002-03-30 |
                                                        1 |
                                                               1 |
    2
                          3
                                                        2
                                                               2 |
    3 | ram
                 calc
                                 10200 | 2002-03-20
    4 | shyam | bihar |
                                                               3
                          4 | 1020330 | 2003-03-23 |
                                                        2
4 rows in set (0.00 sec)
```

7. Create index

```
mysql> create index index1 on orders(amt);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql>
```

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