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> desc Customers;

Field	Type	557			7.0	7	Default		
o de la companya del companya de la companya del companya de la co	int(11)	- 5						Ī	
cname	char(10)	1	NO	1		1	NULL	1	
city	char(10)	- [YES	1		1	NULL	1	i i
rating	int(11)	Ì	YES	Í		Ì	NULL	İ	ĺ
snum	int(11)	i	YES	Í		i	NULL	1	ĺ

5 rows in set (0.00 sec)

mysql> desc Salespeople;

Field				7		Default	
	int(11)			PRI			+ I
	ame varchar(10)					NULL	
city	varchar(10)	İ	YES	İ	ĺ	NULL	

3 rows in set (0.00 sec)

mysql> desc orders;

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		int(11)						
amt	: 1	decimal(10,0)	1	YES	1	MUL	NULL	1
		date	1	NO	1		NULL	1 1
cnu	ım	int(11)	1	NO	1		NULL	1 1
snu	ım	int(11)	1	NO	1		NULL	1 1

5 rows in set (0.00 sec)

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, o 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, o 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.

```
mysql> select * from Salespeople where snum in (select snum from orders group by snum having count(distinct onum)>1);

| snum | sname | city |
| 1 | jayesh | ahmd |
| trow in set (0.00 sec)
```

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

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

```
mysql> select a.onum,b.sname,c.cname from orders a inner join Salespeople b on a.onum=b.snum inner join Customers c on c.cnum=b.snum;

| onum | sname | cname |
| 1 | jayesh | sanjay |
| 2 | mukesh | paresh |
| 3 | ram | jay |
| 4 | shyam | ajay |
| 4 rows in set (0.00 sec)
```