

## DBMS Assignment

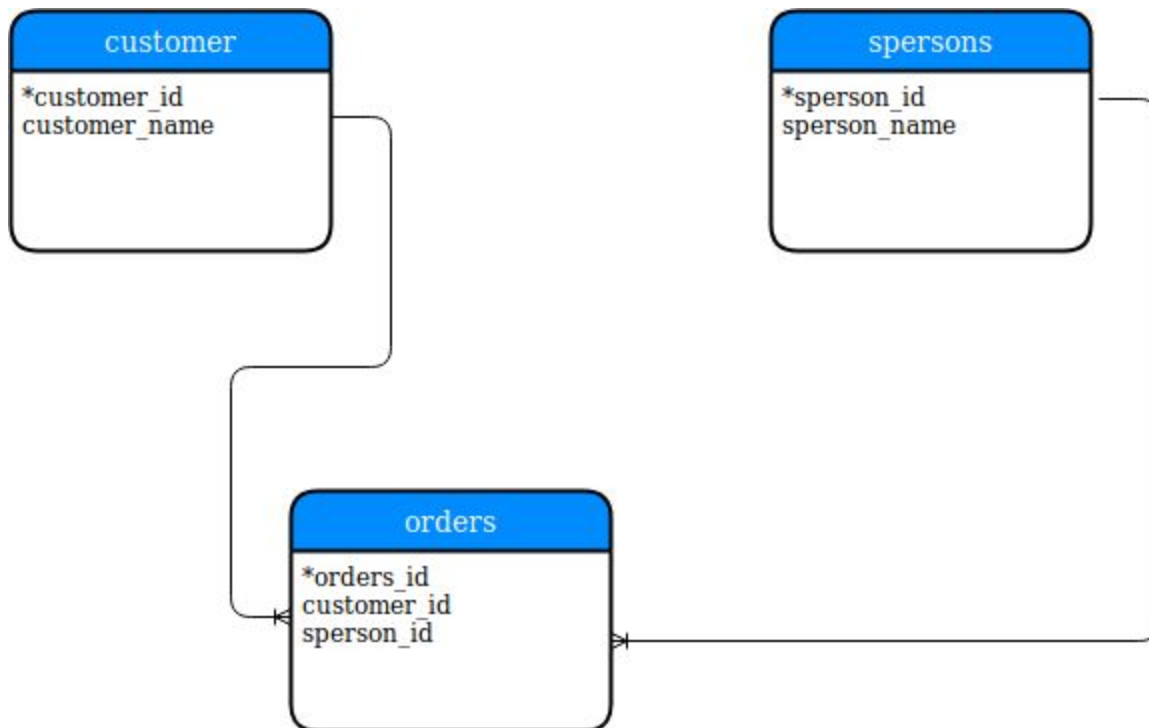
### Q 1. Create Database

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.00 sec)

mysql> create database divya_shop;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| divya_shop |
| mysql |
| performance_schema |
| sys |
+-----+
```

### Q 2. Design Schema



### Q 3. Create tables

```
mysql> use divya_shop
Database changed
mysql> create table customer (
  -> customer_id integer primary key
  -> , customer_name varchar(20));
Query OK, 0 rows affected (0.39 sec)

mysql> create table orders (
  -> orders_id integer primary key^C^C
^C
mysql> create table spersons (
  -> sperson_id integer primary key,
  -> sperson_name varchar(20));
Query OK, 0 rows affected (0.33 sec)

mysql> create table orders (
  -> orders_id integer primary key,
  -> customer_id integer,
  -> sperson_id integer,
  -> foreign key (customer_id) references customer (customer_id),
  -> foreign key (sperson_id) references spersons (sperson_id));
Query OK, 0 rows affected (0.41 sec)

mysql> █
```

#### Q 4. Insert sample data

```
mysql> Insert into customer values (1245, "Shruti"),
-> (1524, "Srishti"),
-> (2315, "Monika"),
-> (2390, "Deepika");
```

```
Query OK, 4 rows affected (0.14 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> Insert into spersons values (100, "Rajeev"),
-> (110, "Rohit"),
-> (120, "Raj"),
-> (130, "Sanjeev");
```

```
Query OK, 4 rows affected (0.07 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> Insert into orders values (1, 1524, 100),
-> (2, 1245, 130),
-> (3, 2390, 110),
-> (4, 1524, 120),
-> (5, 2315, 130),
-> (6, 1245, 100);
```

```
Query OK, 6 rows affected (0.18 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> select * from customer
-> ^C
```

```
^C
mysql> select * from customer;
```

customer_id	customer_name
1245	Shruti
1524	Srishti
2315	Monika
2390	Deepika

```
mysql> select * from spersons;
```

sperson_id	sperson_name
100	Rajeev
110	Rohit
120	Raj
130	Sanjeev

```
4 rows in set (0.00 sec)
```

```
mysql> select * from orders;
```

orders_id	customer_id	sperson_id
1	1524	100
2	1245	130
3	2390	110
4	1524	120
5	2315	130
6	1245	100

```
6 rows in set (0.00 sec)
```

```
mysql> █
```

Q 5. Find the sales persons who have multiple orders.

```
mysql> select sp.* from spersons sp join orders o on sp.sperson_id = o.sperson_id group by o.sperson_id having count(o.sperson_id) >1;
+-----+-----+
| sperson_id | sperson_name |
+-----+-----+
|          100 | Rajeev       |
|          130 | Sanjeev      |
+-----+-----+
2 rows in set (0.00 sec)
```

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

```
mysql> select sp.*, o.* from spersons sp join orders o on sp.sperson_id = o.sperson_id;
+-----+-----+-----+-----+-----+
| sperson_id | sperson_name | orders_id | customer_id | sperson_id |
+-----+-----+-----+-----+-----+
|          100 | Rajeev       |          1 |          1524 |          100 |
|          100 | Rajeev       |          6 |          1245 |          100 |
|          110 | Rohit        |          3 |          2390 |          110 |
|          120 | Raj          |          4 |          1524 |          120 |
|          130 | Sanjeev      |          2 |          1245 |          130 |
|          130 | Sanjeev      |          5 |          2315 |          130 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> █
```

Q 7. Create index

```
mysql> create index idx_cname on customer (customer_name);
Query OK, 0 rows affected (0.34 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> █
```

Q 8. How to show index on a table

Q 9. Find the order number, sales person name, along with the customer to whom that order belongs to.

```
mysql> select o.orders_id, c.customer_name, c.customer_id, sp.sperson_name from  
-> orders o inner join spersons sp inner join customer c  
-> on o.sperson_id = sp.sperson_id and c.customer_id = o.customer_id;
```

orders_id	customer_name	customer_id	sperson_name
6	Shruti	1245	Rajeev
1	Srishti	1524	Rajeev
3	Deepika	2390	Rohit
4	Srishti	1524	Raj
5	Monika	2315	Sanjeev
2	Shruti	1245	Sanjeev

```
6 rows in set (0.00 sec)
```

```
mysql> █
```