Assignment -3

1. Create Database

2. Design Schema. & 3. Create tables.

mysql> create table sales(

```
-> id bigint(20) not null auto increment,
    -> name varchar(60),
    -> primary key(id)
    -> );
Query OK, 0 rows affected (0.03 sec)
mvsql> desc sales:
| Field | Type | Null | Key | Default | Extra
| id | bigint(20) | NO | PRI | NULL | auto_increment |
| name | varchar(60) | YES | | NULL
2 rows in set (0.00 sec)
mysql> create table customer( id bigint(20) not null auto_increment, cname varchar(60) not null, primary key(id) );
Query OK, 0 rows affected (0.04 sec)
mysql> desc customer;
| Field | Type | Null | Key | Default | Extra |
+----+
| id | bigint(20) | NO | PRI | NULL | auto_increment |
| cname | varchar(60) | NO | | NULL |
2 rows in set (0.00 sec)
mysql>
```

```
mysql> create table orders(
            o id bigint(20) not null auto increment,
            quantity int not null,
    ->
            c_id bigint(20) not null,
    ->
            s id bigint(20) not null,
    ->
            primary key(o id),
    ->
            foreign key(c id) references customer(id).
    ->
            foreign key(s id) references sales(id)
    ->
           ):
    ->
Ouery OK, 0 rows affected (0.05 sec)
mysql> desc orders;
I Field
          | Type | Null | Key | Default | Extra
 o id
                               | PRI | NULL
           | bigint(20) | NO
                                               | auto increment
| quantity | int(11)
                        l NO
                                     NULL
           | bigint(20) | NO
| c id
                               | MUL | NULL
          | bigint(20) | NO
                             | MUL | NULL
| s id
4 rows in set (0.01 sec)
mvsql>
```

4. Insert sample data.

```
mysql> insert into sales(name) values ("S1");
Query OK, 1 row affected (0.00 sec)

mysql> insert into sales(name) values ("S2");
Query OK, 1 row affected (0.00 sec)

mysql> insert into sales(name) values ("S3");
Query OK, 1 row affected (0.00 sec)

mysql> insert into sales(name) values ("S4");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into customer(cname) values ("C1");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer(cname) values ("C2");
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer(cname) values ("C3");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer(cname) values ("C4");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer(cname) values ("C5");
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer(cname) values ("C6");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into orders(quantity,c_id,s_id) values (3,1,4);
Ouery OK, 1 row affected (0.01 sec)
mysql> insert into orders(quantity,c_id,s_id) values (2,1,2);
Query OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c id,s id) values (5,2,1);
Query OK, 1 row affected (0.01 sec)
mysql> insert into orders(quantity,c id,s id) values (7,4,3);
Ouery OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c_id,s_id) values (10,5,3);
Query OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c_id,s_id) values (1,3,1);
Ouery OK, 1 row affected (0.01 sec)
mysql> insert into orders(quantity,c_id,s_id) values (1,3,2);
Query OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c_id,s_id) values (2,6,4);
Query OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c id,s id) values (5,3,4);
Query OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c_id,s_id) values (7,6,2);
Query OK, 1 row affected (0.00 sec)
mysql> insert into orders(quantity,c id,s id) values (1,1,1);
```

```
mysql> select * from sales;
 id | name |
  1 | S1
  2 | 52
  3 | $3
  4 | S4
4 rows in set (0.00 sec)
mysql> select * from customer;
| id | cname |
   1 | C1
   2 | C2
   3 | C3
   4 | C4
  5 | C5
   6 | C6
6 rows in set (0.00 sec)
```

```
mysql> select * from orders;
 o_id | quantity | c_id | s_id |
                3 |
                      1 |
     1 |
                             4
     2 |
               2 |
                       1 I
                              2
                5 I
                       2 |
     3 I
                              1
                      4 |
     4 1
               7 I
     5 I
                       5 I
                              3
               10
                       3 I
                              1
     6 I
               1 |
     7
               1
                       3 I
                              2
     8 I
               2 |
                       6
                             4
     9 1
               5 I
                       3 I
                              4
    10
               7
                       6 I
                              2
                1 |
                              1
                       1 |
    11
11 rows in set (0.00 sec)
mysql>
```

5. Find the sales person have multiple orders.

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

```
mysql> select * from sales s right join orders ON s.id = orders.s_id;
| id | name | o id | quantity | c id | s id |
    1 | S1 | 3 |
                       5 2 1 1 1
    1 | S1
               6 I
                         1 |
                               3 I
                                     1 I
    1 | S1
              11 |
                         1 |
                               1 I
                                     1 I
              2 | 7 |
    2 | S2
                         2 |
                               1 |
    2 | S2
                        1 |
                              3 I
                                     2 |
         | 10 |
                         7
    2 | S2
                              6 I
                                     2 I
                              4
   3 | S3
              4 |
                         7
                                    3 I
   3 | S3
                       10
               5 I
                              5 I
    4 | S4 |
                        3 I
                              1 |
                                     4 1
               1 |
    4 | S4
                         2 |
                                     4
               8 I
                              6 I
                        5
                              3
   4 | S4 |
               9
11 rows in set (0.00 sec)
mvsal>
```

7. Create index

```
mysql> alter table customer add index ccid(id);
Query OK, 0 rows affected (0.04 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 orders.o_id,sales.name,orders.c_id from sales right join orders on sales.id = orders.s_id;
 o_id | name | c_id |
    3 | S1 | 2 |
   6 | S1
11 | S1
                 3
   2 | S2
7 | S2
10 | S2
            | 1 |
            3 |
           | 6 |
    4 | S3
           | 4 |
    5 | S3
           5
    1 | $4
    8 | S4
                 6 I
    9 | $4
           | 3 |
11 rows in set (0.01 sec)
```