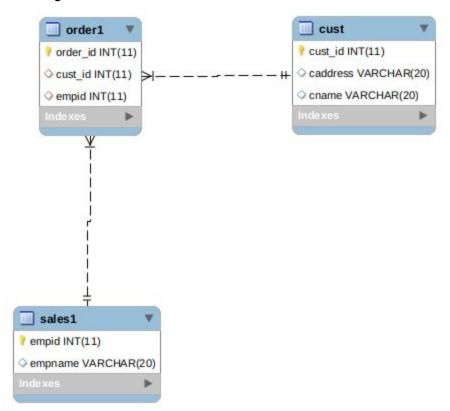
### Q1. Create Database

```
ttn@ttn:sql1 $ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)
Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+-----+
Database
| information_schema |
mysql
| performance schema |
4 rows in set (0.00 sec)
```

mysql> create database customer1; Query OK, 1 row affected (0.00 sec)

# Q2.Design Schema



#### Q3. Create tables

```
mysql> create table cust( cust_id int not null PRIMARY KEY, caddress varchar(20), cname varchar(20));
Query OK, 0 rows affected (0.30 sec)
mysql> desc cust;
| Field | Type | Null | Key | Default | Extra |
3 rows in set (0.00 sec)
mysql> create table sales1(empid int, empname varchar(20), PRIMARY KEY(empid) );
Query OK, 0 rows affected (0.28 sec)
mysql> desc sales1;
| Field | Type | Null | Key | Default | Extra |
| empid | int(11) | NO | PRI | NULL
| empname | varchar(20) | YES | | NULL
2 rows in set (0.00 sec)
mysql> create table order1(order_id int, cust_id int, empid int, primary key(order_id), foreign key(cust_id) references cust(cust_id), forei
gn key(empid) references sales1(empid));
Query OK, 0 rows affected (0.39 sec)
mysql> desc order1;
| Field | Type | Null | Key | Default | Extra |
| empid | int(11) | YES | MUL | NULL
3 rows in set (0.00 sec)
mysql> show tables
   -> ;
 Tables_in_customer1 |
 cust
 order1
 sales1
```

```
mysql> insert into cust values(100, "RZ-1", "ct1");
Query OK, 1 row affected (0.05 sec)
mysql> insert into cust values(101, "RZ-2", "ct1");
Query OK, 1 row affected (0.05 sec)
mysql> insert into cust values(102, "RZ-3", "ct2");
Query OK, 1 row affected (0.05 sec)
mysql> insert into cust values(103, "RZ-1", "ct2");
Query OK, 1 row affected (0.05 sec)
mysql> select * from cust;
| cust id | caddress | cname |
      100 | RZ-1
                    ct1
      101 | RZ-2
                     ct1
      102 | RZ-3
                     l ct2
      103 | RZ-1
                    | ct2
4 rows in set (0.00 sec)
```

```
mysql> insert into sales1 values
    -> (1001, "Ram"),
    -> (1002, "John"),
    -> (1003, "James"),
    -> (1004, "Lucky");
Query OK, 4 rows affected (0.05 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from sales1;
+----+
| empid | empname |
+----+
| 1001 | Ram |
| 1002 | John |
| 1003 | James |
| 1004 | Lucky |
+----+
4 rows in set (0.00 sec)
```

```
mysql> insert into order1 values (1,100,1002), (2,100,1004), (3,101,1004), (4,102,1003), (5,103,1001);
Query OK, 5 rows affected (0.17 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from order1;
+-----+
| order_id | cust_id | empid |
+-----+
| 1 | 100 | 1002 |
| 2 | 100 | 1004 |
| 3 | 101 | 1004 |
| 4 | 102 | 1003 |
| 5 | 103 | 1001 |
+------+
5 rows in set (0.00 sec)
mysql> ■
```

Q5. Find the sales person have multiple orders.

Q6. Find the all sales person details along with order details

```
mysql> select sp.*, o.order_id, o.cust_id
    -> from sales1 sp
    -> join order1 o
    -> on sp.empid=o.empid;
  empid | empname | order_id | cust_id |
   1001 | Ram
                                   103
   1002 | John
                          1 |
                                   100
                          4 |
   1003 | James
                                   102
                          2 |
   1004 | Lucky
                                   100
   1004 | Lucky
                          3 |
                                   101 |
5 rows in set (0.00 sec)
```

## Q7. Create index

```
mysql> create index ind1 on cust(caddress);
Query OK, 0 rows affected (0.36 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

## Q8. How to show index on a table

Q9. Find the order number, sales person name, along with the customer to whom that order belongs to

```
mysql> select o.order_id, sp.empname, c.cname, c.cust_id
    -> from order1 o
   -> join sales1 sp
   -> join cust c
   -> on o.empid=sp.empid
    -> and o.cust_id=c.cust_id;
 order_id | empname | cname | cust_id |
        1 John
                    ct1
                                 100
        2 | Lucky
                    ct1
                                 100
        3 | Lucky
                    ct1
                                 101
        4 | James
                    ct2
                                 102
        5 Ram
                    ct2
                                 103
5 rows in set (0.00 sec)
```