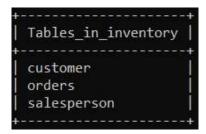
# Submitted by Mohit Dhande

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

```
MySQL localhost:33060+ ssl SQL > create database inventory;
Query OK, 1 row affected (0.0372 sec)
MySQL localhost:33060+ ssl SQL > use inventory;
Default schema set to `inventory`.
```

## 2. Design Schema



```
SQL > select * from orders;
       localhost:33060+ ssl inventory
 order_id | amount | cust_id | sales_id |
      101
                           1 |
                                       2
               100
      102
               450
                           1
       103
               450
                           2
                                       1
3 rows in set (0.0012 sec)
MySQL localhost:33060+ ssl inventory SQL > select * from salesperson;
 salesperson_id | salesperson_name
                  Bob
               1 |
               2
                  Andy
 rows in set (0.0012 sec)
       localhost:33060+ ssl inventory SQL > select * from customer;
 customer id | first_name
               Tom
               Jerry
           2
```

#### Create tables

```
localhost:33060+ ssl inventory
                                                SQL > create table customer(
                                                    -> customer id int not null,
                                                    -> first name varchar(30),
                                                    -> primary key (customer_id));
Query OK, 0 rows affected (0.0644 sec)
MySOL localhost:33060+ ssl inventory
                                               SQL > create table salesperson(
                                                   -> salesperson id int not null,
                                                   -> salesperson name varchar(30),
                                                   -> primary key (salesperson_id));
Query OK, 0 rows affected (0.0676 sec)
MySQL localhost:33060+ ssl inventory SQL > create table orders(
                                    -> order_id int not null,
                                      amount int,
                                       cust_id int,
                                       sales_id int,
                                       PRIMARY KEY (order_id),
FOREIGN KEY (cust_id) REFERENCES customer(customer_id),
                                       FOREIGN KEY (sales_id) REFERENCES salesperson(salesperson_id)
```

## 4. Insert sample data

```
SQL > INSERT INTO customer (customer_id, first_name) VALUES ('1', 'Tom');
MySQL localhost:33060+ ssl inventory
Query OK, 1 row affected (0.0378 sec)
       localhost:33060+ ssl inventory
                                                 > INSERT INTO customer (customer_id, first_name) VALUES ('2', 'Jerry');
Query OK, 1 row affected (0.0043 sec)
       localhost:33060+ ssl inventory
localhost:33060+ ssl inventory
                                                   INSERT INTO salesperson (salesperson_id, salesperson_name) VALUES ('1', 'Bob');
Query OK, 1 row affected (0.0076 sec)
                                                  INSERT INTO salesperson (salesperson_id, salesperson_name) VALUES ('2', 'Andy');
     localhost:33060+ ssl inventory
Query OK, 1 row affected (0.0040 sec)
        localhost:33060+ ssl inventory
localhost:33060+ ssl inventory
                                                  INSERT INTO orders (order_id, amount, cust_id, sales_id) VALUES ('101', '100', '1', '2');
Query OK, 1 row affected (0.0085 sec)
     L localhost:33060+ ssl inventory
                                            SQLD> INSERT INTO orders (order_id, amount, cust_id, sales_id) VALUES ('102', '450', '1', '1');
Query OK, 1 row affected (0.0045 sec)
                                            SQL > INSERT INTO orders (order_id, amount, cust_id, sales_id) VALUES ('103', '450', '2', '1');
MySQL localhost:33060+ ssl inventory
Ouerv OK, 1 row affected (0.0058 sec)
```

5. Find the sales person have multiple orders.

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

7. Create index

```
MySQL localhost:33060+ ssl inventory SQL > CREATE INDEX index_on_cust_name ON customer (first_name); Query OK, 0 rows affected (0.0923 sec)
```

8. How to show index on a table

9. Find the order number, sale person name, along with the cu stomer to whom that order belongs to