## **Session : Introduction to Databases**

## **EXERCISE**

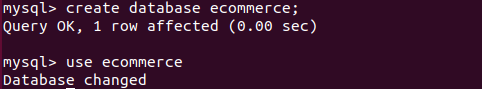
**By: Syed Shayan Nasir (EmployeeID: 4153)**

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

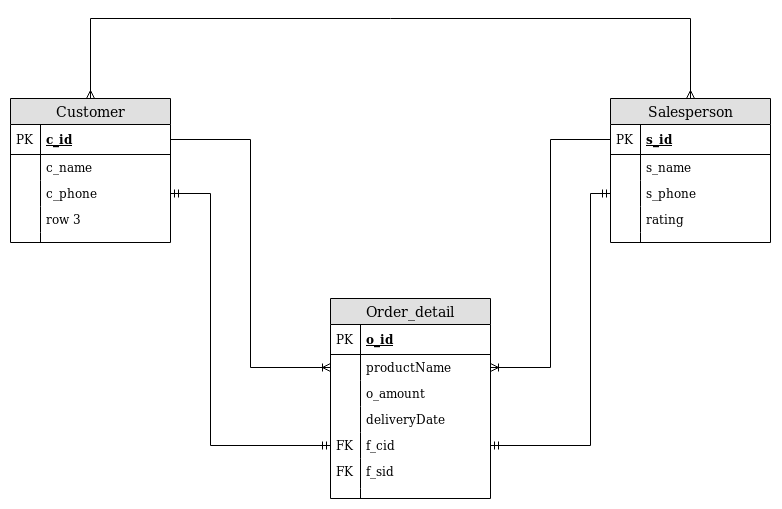
1. Create Database

Ans. **create database ecommerce;**

**use ecommerce**



1. Design Schema



1. Create tables

**create table customer(**

**c\_id int NOT NULL AUTO\_INCREMENT PRIMARY KEY,**

**c\_name varchar(32),**

**c\_phone bigint(15));**

**create table salesperson(**

**s\_id int NOT NULL AUTO\_INCREMENT PRIMARY KEY,**

**s\_name varchar(32),**

**s\_phone bigint(15),**

**rating char);**

**create table order\_detail(**

**o\_id int not null primary key,**

**productName varchar(64),**

**o\_amount float(7),**

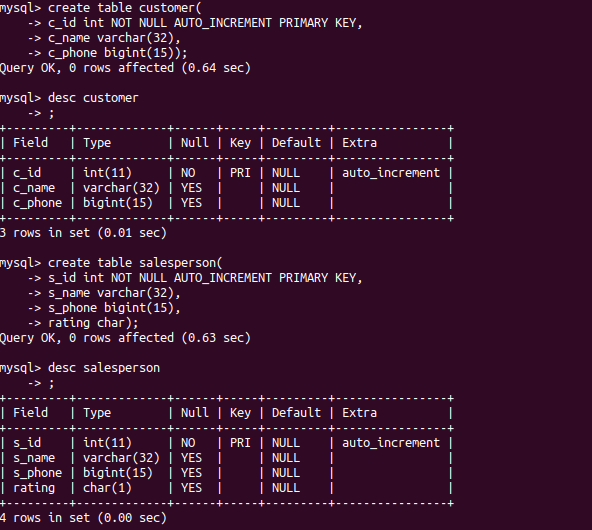
**deliveryDate datetime,**

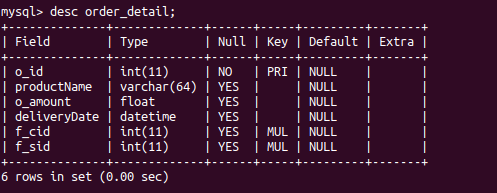
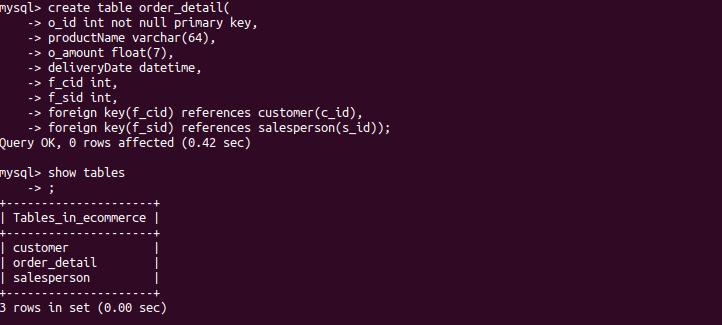
**f\_cid int,**

**f\_sid int,**

**foreign key(f\_cid) references customer(c\_id),**

**foreign key(f\_sid) references salesperson(s\_id));**



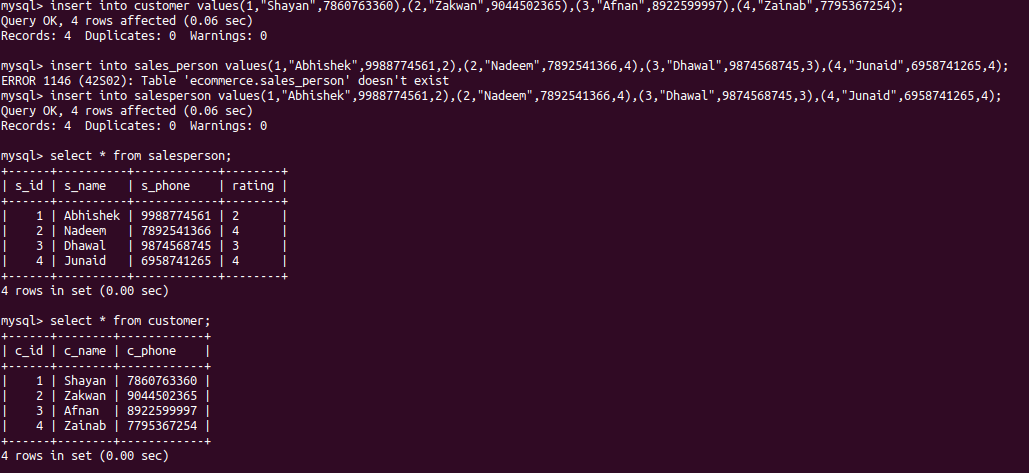


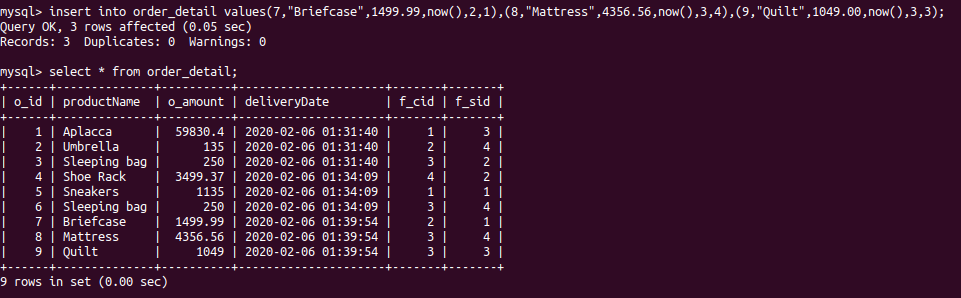
1. Insert sample data

**insert into customer values(1,"Shayan",7860763360),(2,"Zakwan",9044502365), (3,"Afnan",8922599997),(4,"Zainab",7795367254);**

**insert into salesperson values(1,"Abhishek",9988774561,2),(2,"Nadeem",7892541366,4), (3,"Dhawal",9874568745,3),(4,"Junaid",6958741265,4);**

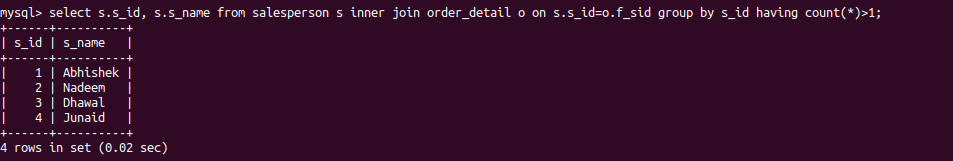
**insert into order\_detail values(1,"Aplacca",59830.37,now(),1,3), (2,"Umbrella",135.00,now(),2,4),(3,"Sleeping bag",250.00,now(),3,2);**





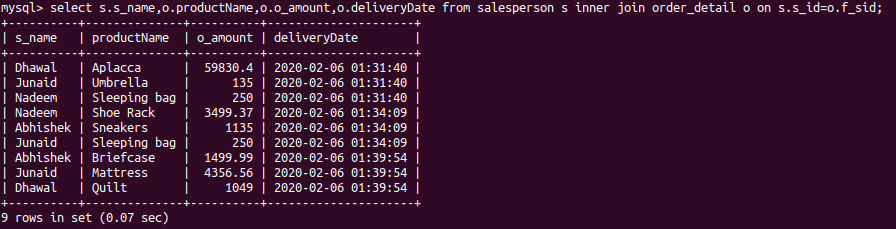
1. Find the sales person have multiple orders.

**select s.s\_id, s.s\_name from salesperson s inner join order\_detail o on s.s\_id=o.f\_sid group by s\_id having count(\*)>1;**



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

**select o.productName,s.s\_name from salesperson s inner join order\_detail o on s.s\_id=o.f\_sid;**



1. Create index

**ALTER table salesperson ADD INDEX salesperson\_phone(s\_phone);**

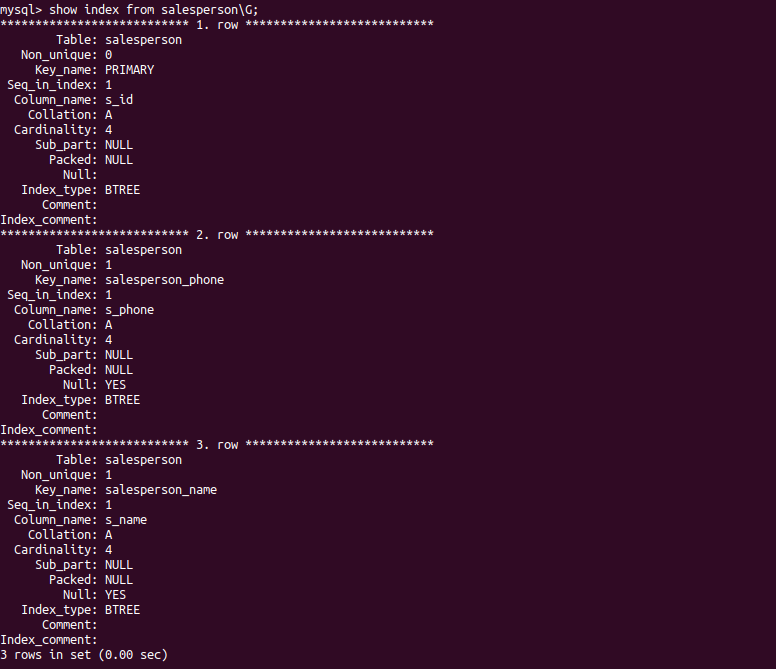


**ALTER table salesperson ADD INDEX salesperson\_name(s\_name);**



1. How to show index on a table

**show index from salesperson\G;**



1. Find the order number, salesperson name, along with the customer to whom that order belongs to

**select o.o\_id,s.s\_name,c.c\_name from salesperson s inner join order\_detail o on s.s\_id=o.f\_sid inner join customer c on o.f\_cid=c.c\_id;**