**Exercise**

**Databases**

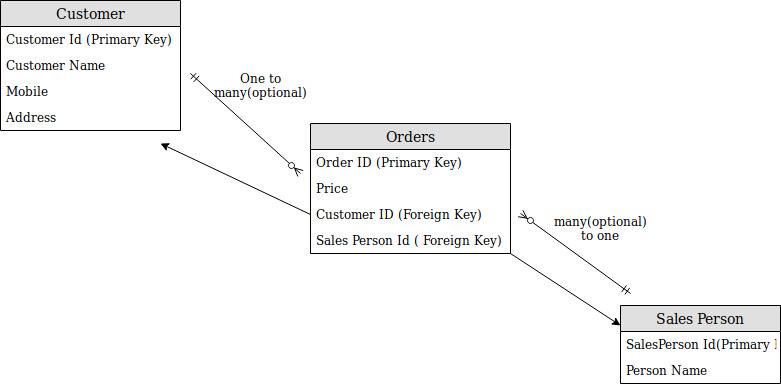
**Name: Mahesh Inder**

**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.**
2. Databases can be created by using “create database db\_name” command.



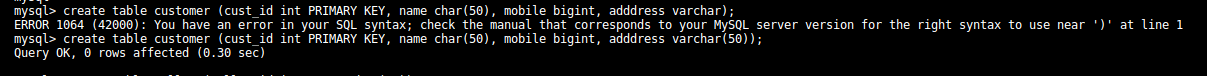
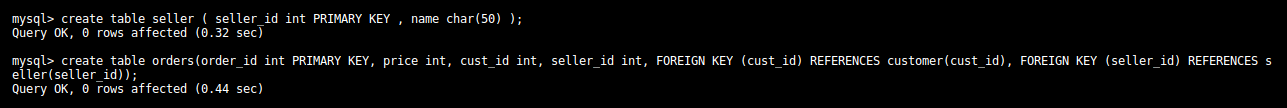
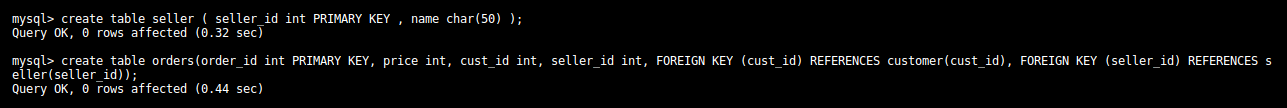
1. **Design Schema**

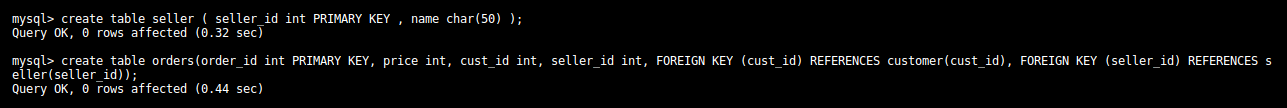
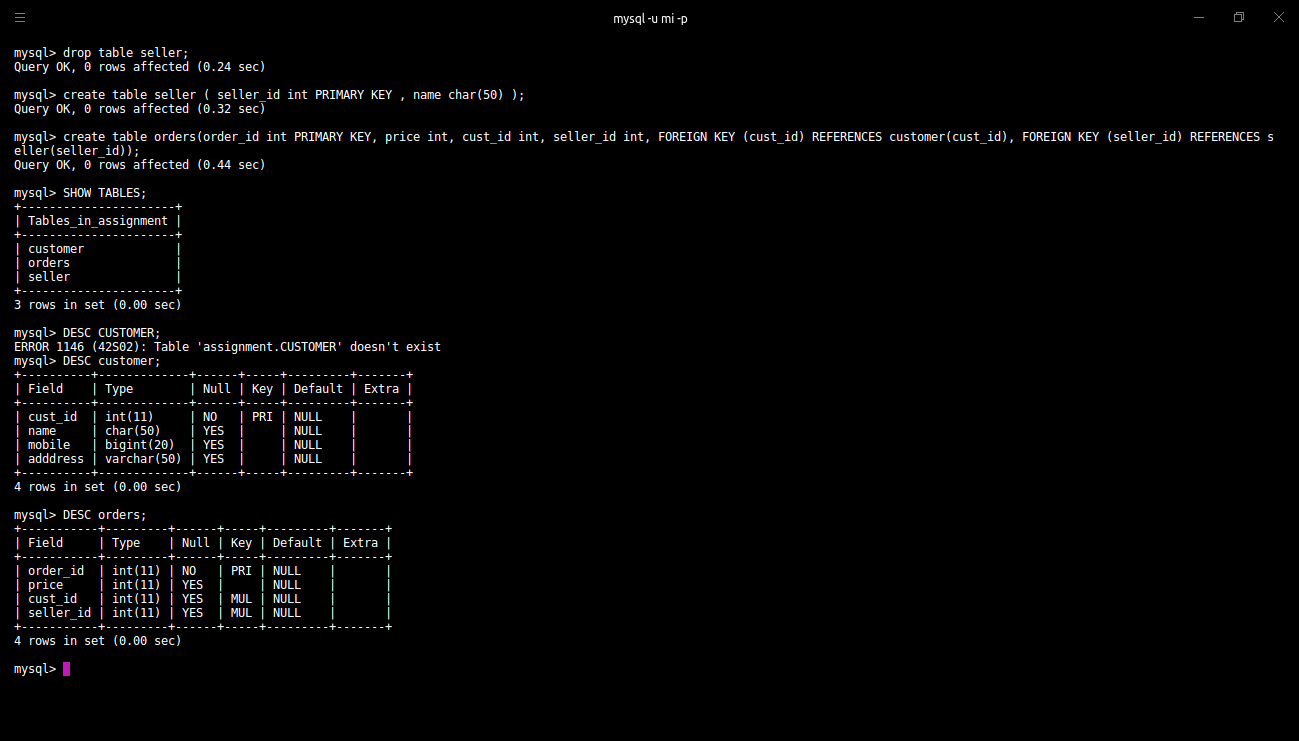
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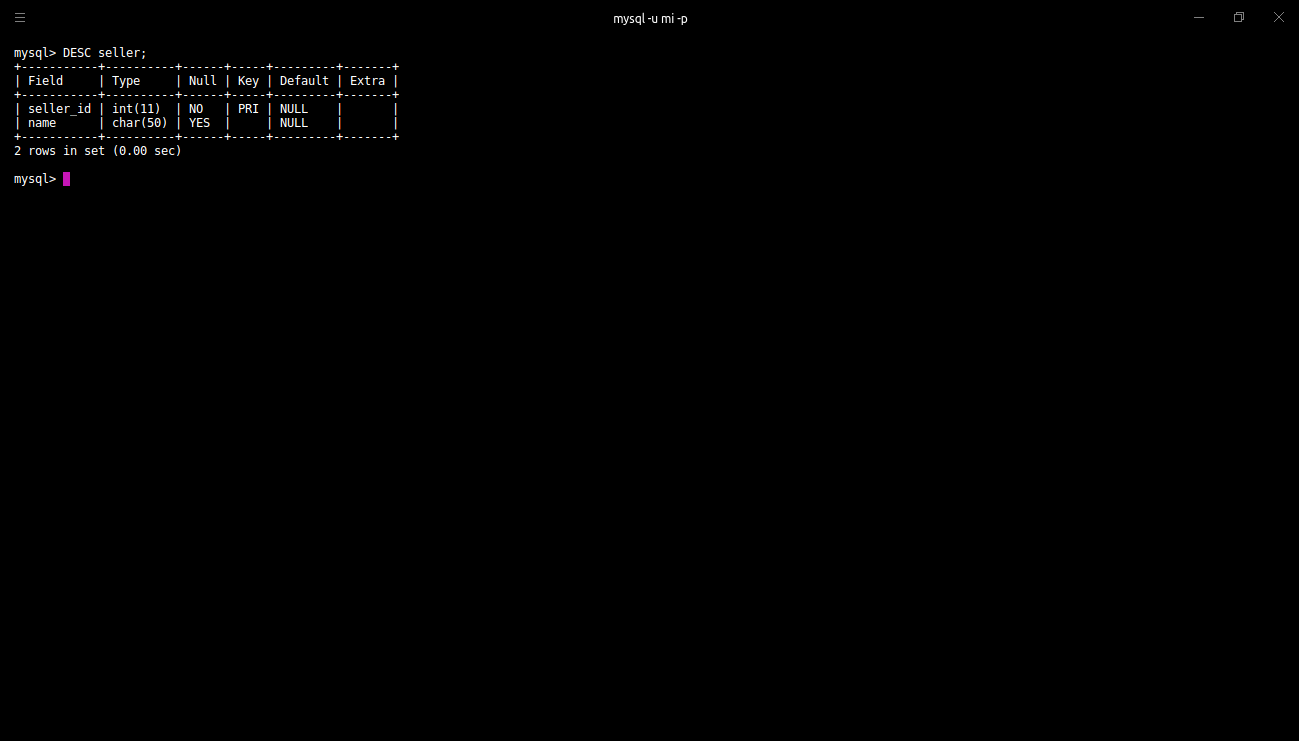
**ER Diagram**

**(Schema for the given Problem)**

1. **Create tables.**
2. Using create table command to create table:

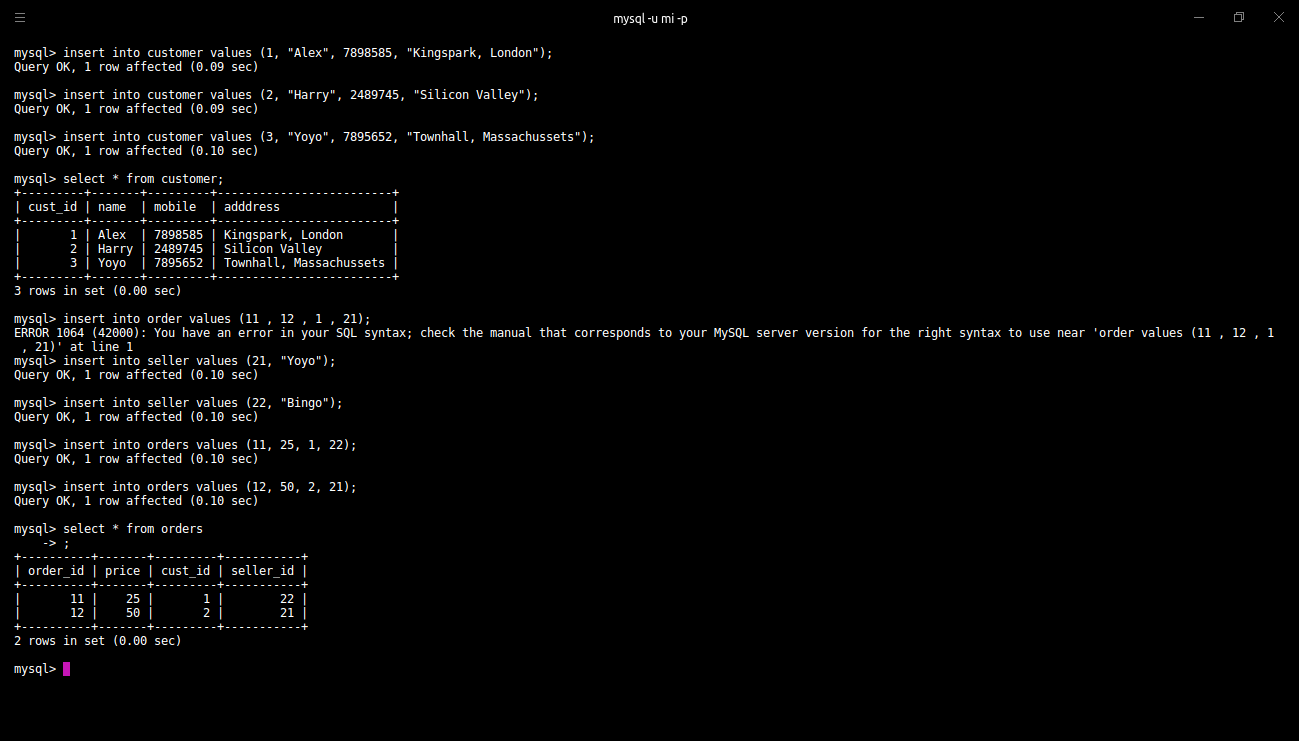
* Customer table :
* Seller and Orders tables:

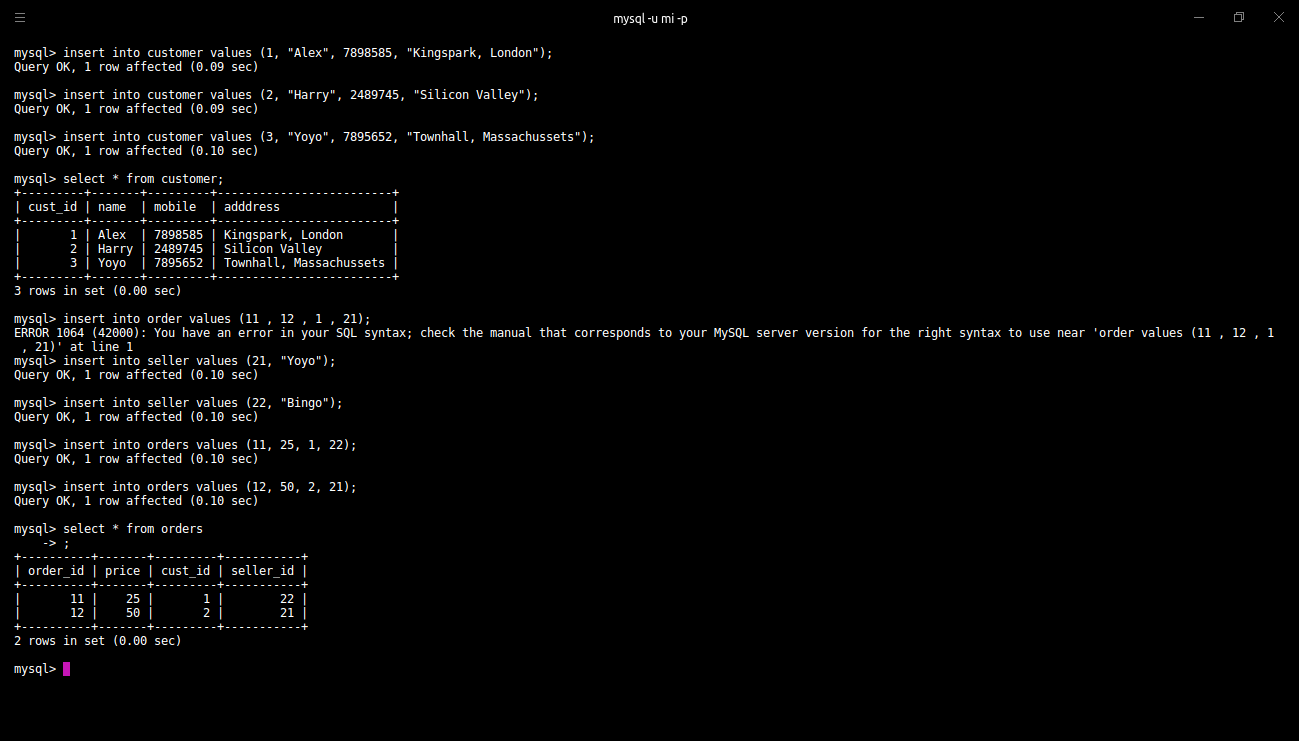
Let’s have a look at created tables.

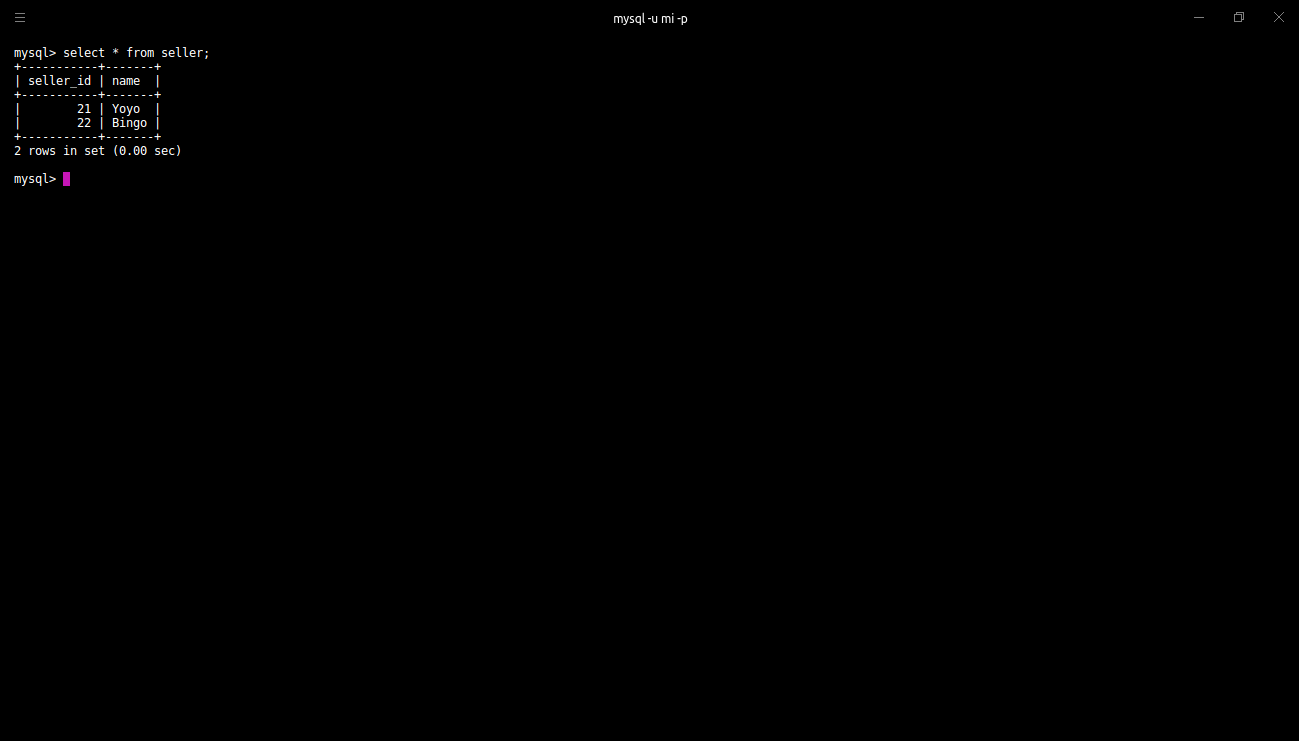
Seller table

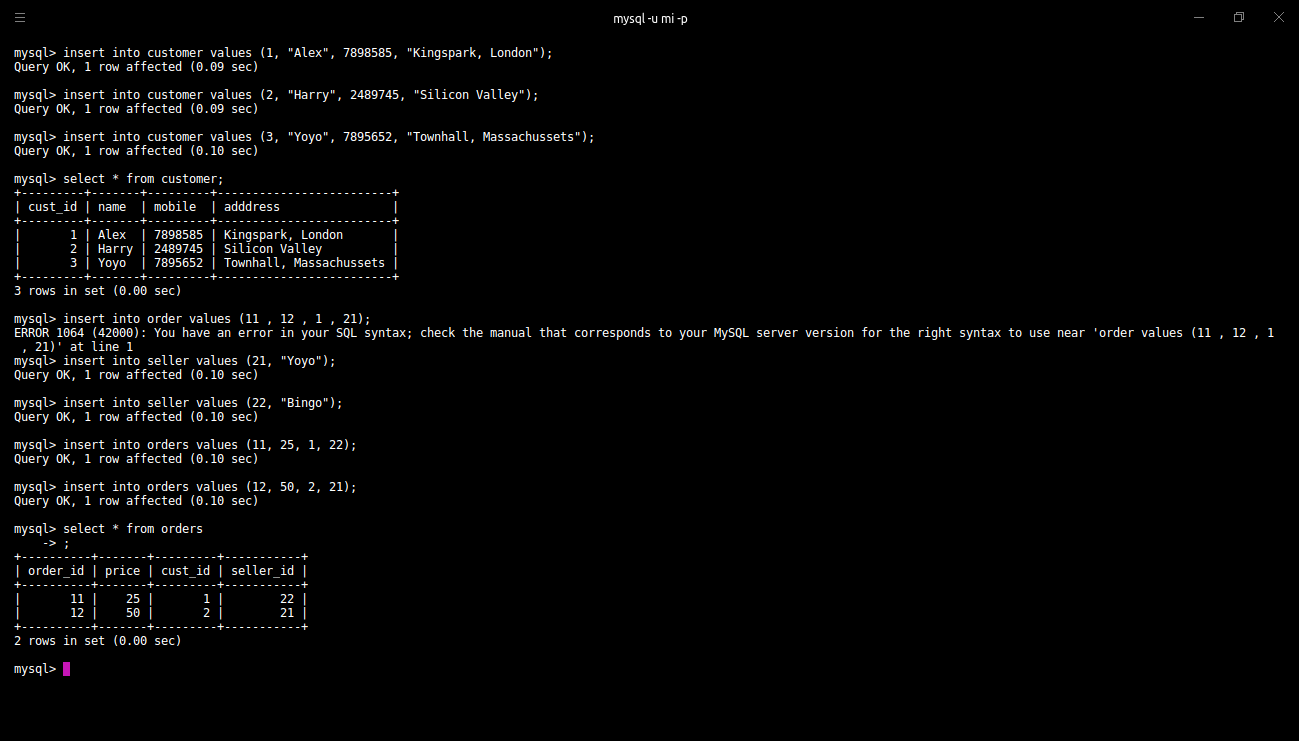
**4. Insert sample data.**

1. Using insert command, data can be inserted into the table.

*Insertion in Customer table.*

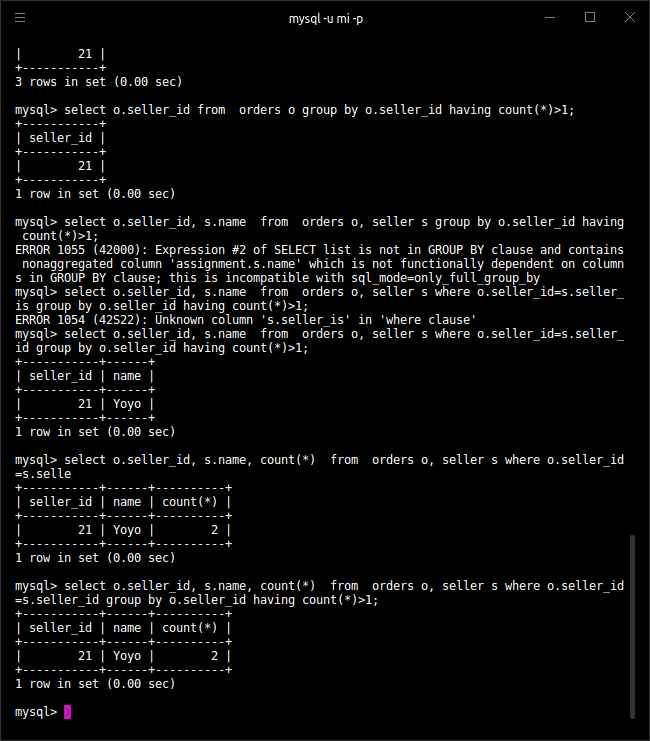


*Insertion in Seller table.*

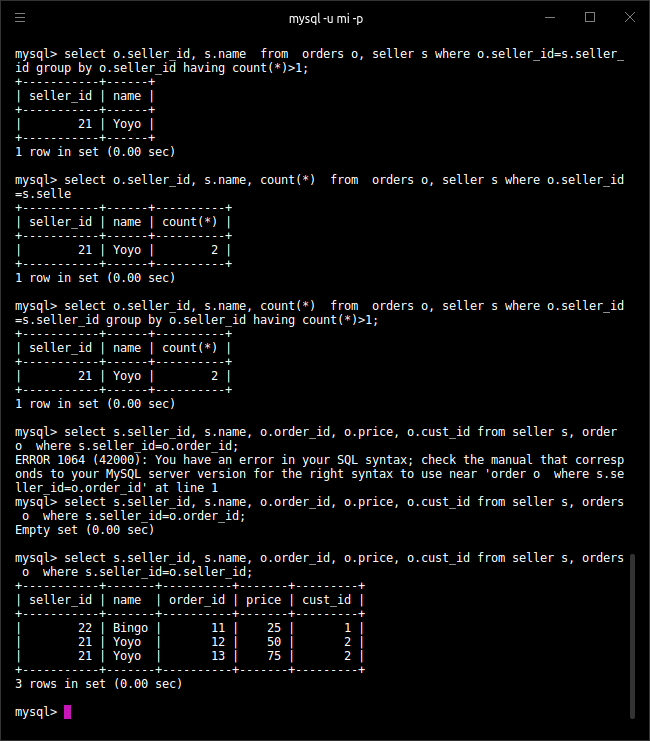
*Insertion in Orders table.*

1. **Find the sales person have multiple orders.**
2. To display the details of the seller who has multiple orders, we will group the data by seller\_id and display the results where the count is more than one.

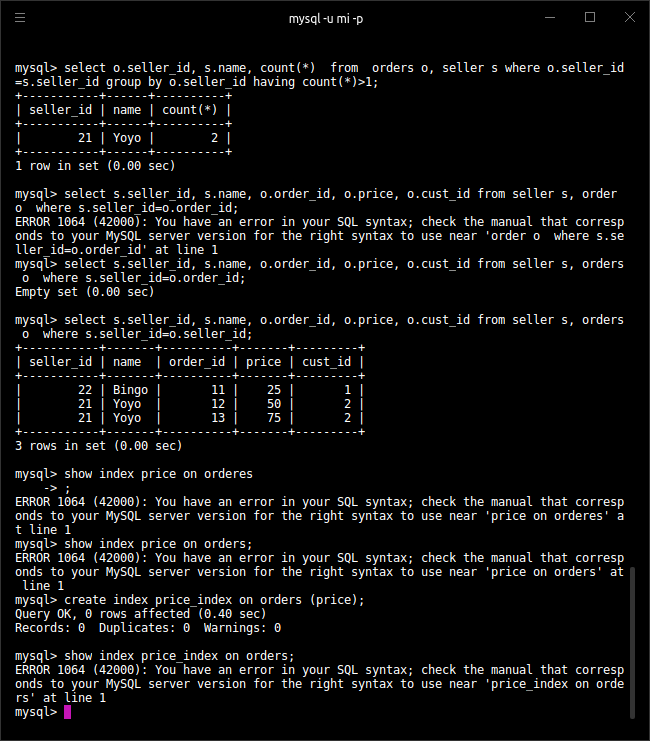
Command : SELECT *o.seller\_id, s.name*, COUNT(\*) FROM *orders o, seller* s WHERE *o.seller\_id = s.seller\_id*  GROUP BY *o.seller\_id* HAVING COUNT(\*) > 1;



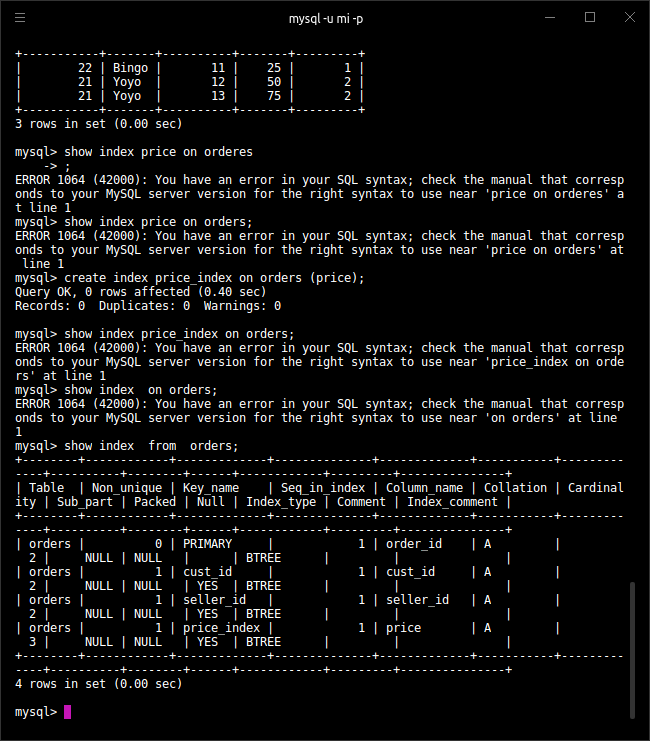
1. **Find the all sales person details along with order details.**
2. By using where clause we can filter the data before projecting it.



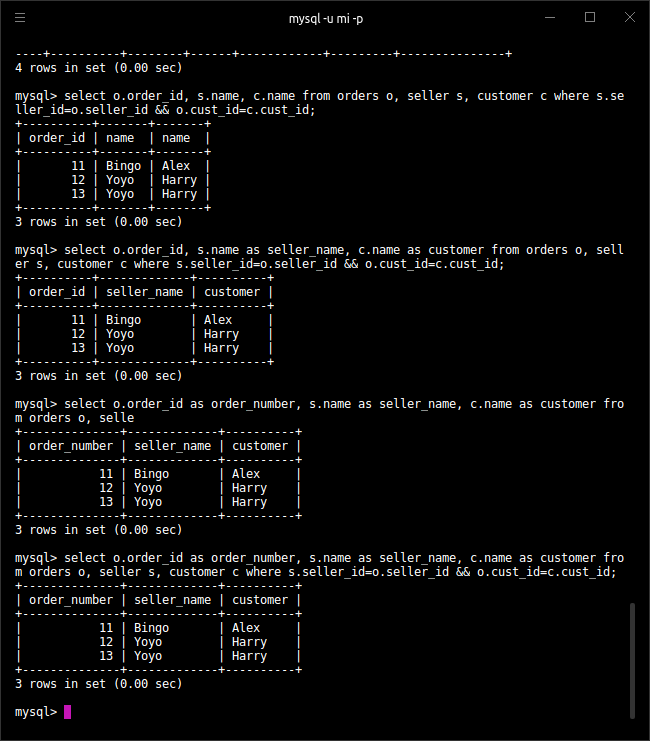
1. **Create index.**
2. Command used: create index index\_name on tableName(columnName)



1. **How to show index on a table**
2. Command used: show index from tableName



1. **Find the order number, sales person name, along with the customer to whom that order belongs to.**
2. Command used: SELECT *o.order\_id* AS *order\_number, s.name* AS *seller\_name, c.name* AS *customer* FROM  *orders o, seller s, customer c* WHERE *s.seller\_id = o.seller\_id && o.cust\_id = c.cust\_id;*



*Usage of where clause with &&.*