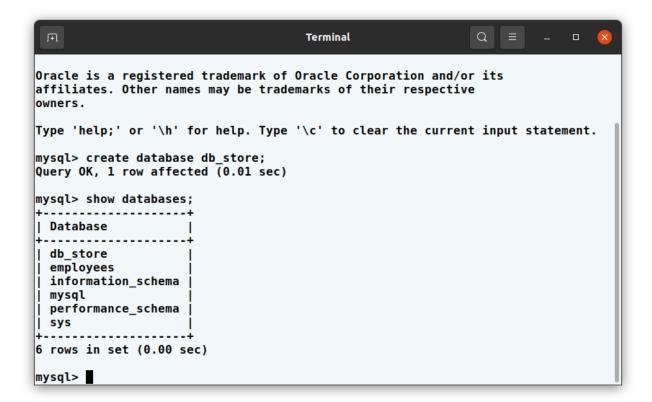
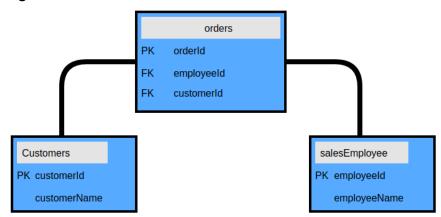
Intro to Databases assignment solutions Ayush Sharma

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 assigned to one salesperson only). So a sales person can have multiple orders of multiple customers

1. Create Database

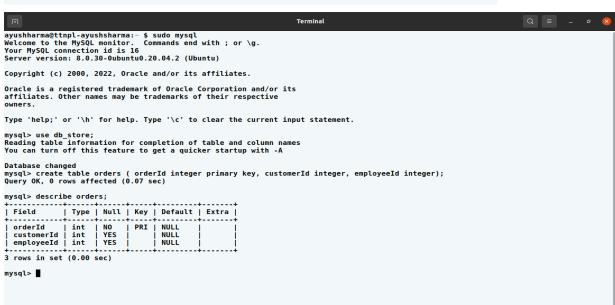


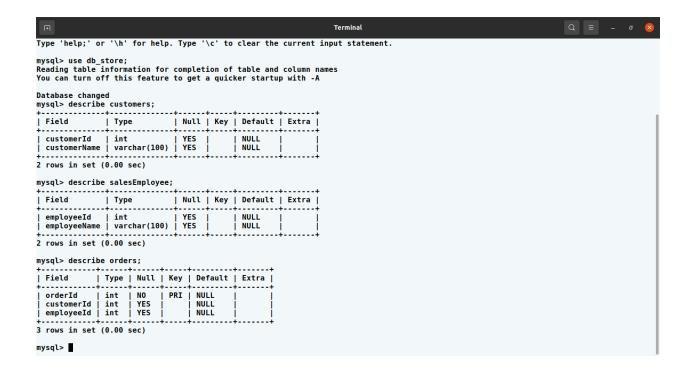
2. Design Schema



3. Create tables

```
naranase
| db store
| employees
| information_schema
| mysql
| performance_schema
sys
6 rows in set (0.00 sec)
mysql> use db_store;
Database changed
mysql> create table customers (
    -> customerId integer,
    -> customerName varchar(100));
Query OK, 0 rows affected (0.04 sec)
mysql> create table salesEmployee (
    -> employeeId integer,
    -> employeeName varchar(100));
Query OK, 0 rows affected (0.06 sec)
```





4. Insert sample data

```
mysql> select * from customers;
+-----+
| customerId | customerName |
+-----+
| 110022 | Ayushsharma |
| 110023 | shikha |
| 110024 | Akshay |
| 120025 | vaishali gupta |
| 120026 | vivek aggrawal |
| 120027 | shubham sharma |
| 120029 | manu |
| 120030 | nandani |
+-----+
8 rows in set (0.00 sec)
```

```
ysql> use db_store leading table information for completion of table and column names 'ou can turn off this feature to get a quicker startup with -A latabase changed ysql> insert into salesEmployee values (4007 , "Jyoti"), (4006 , "Nitin"), (4001 , "Daksh"), (4010 , "akash"), (4011 , "Anushka"), (40 ≥ 2 , "Riya"); luery OK, 6 rows affected (0.04 sec) lecords: 6 Duplicates: 0 Warnings: 0
```

rows in set (0.00 sec)

```
mysql> insert into orders values
   -> (11, 110022, 4007),
   -> (12, 110023, 4006),
   -> (13, 110022, 4011),
   -> (14, 110024, 4010),
   -> (15, 120029, 4001),
   -> (16, 120025, 4011);
Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> select * from orders;
+----+
| orderId | customerId | employeeId |
             110022 | 4007 |
     11 |
     12 |
             110023 |
                         4006
     13 |
             110022 |
                         4011 |
           110024
     14 |
                        4010 |
4001 |
     15 |
             120029
     16 | 120025 | 4011 |
    6 rows in set (0.00 sec)
```

5. Find the sales person have multiple orders.

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

```
nysql> use db_store;
Reading table information for completion of table and column names
fou can turn off this feature to get a quicker startup with -A
Database changed
nysql> select salesEmployee.*,o.orderId,o.customerId
   -> from salesEmployee
   -> join orders o
   -> on salesEmployee.employeeId = o.employeeId;
+-----+
employeeId | employeeName | orderId | customerId |
                                        110022 |
110023 |
       4007 | Jyoti |
4006 | Nitin |
4011 | Anushka |
                               11 |
12 |
13 |
                                        110022
                               14 |
15 |
       4010 | akash
                                         110024 |
                                        120029
       4001 | Daksh
       4011 | Anushka
                                         120025
                                16 |
5 rows in set (0.00 sec)
```

7. Create index

```
mysql> create index customerName_idx on customers(customerName);
Query OK, θ rows affected (θ.10 sec)
Records: θ Duplicates: θ Warnings: θ
mysql> ■
```

8. How to show index on a table

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

mysql> select orders.orderId,e.employeeName,customers.customerName,customers.customerId from orders inner join salesEmployee e inner jo in customers on orders.employeeId = e.employeeId and orders.customerId = customers.customerId;

+		+	++
orderId	employeeName	customerName	customerId
13 11 12 14 16	Anushka Jyoti Nitin akash Anushka Daksh	Ayushsharma Ayushsharma shikha Akshay vaishali gupta manu	110022 110022 110023 110024 120025 120029
4	L	L	L

6 rows in set (0.01 sec)

mysql>