

DB Assignment (By Siddharth Gupta)

Ans 1

create database shopping;

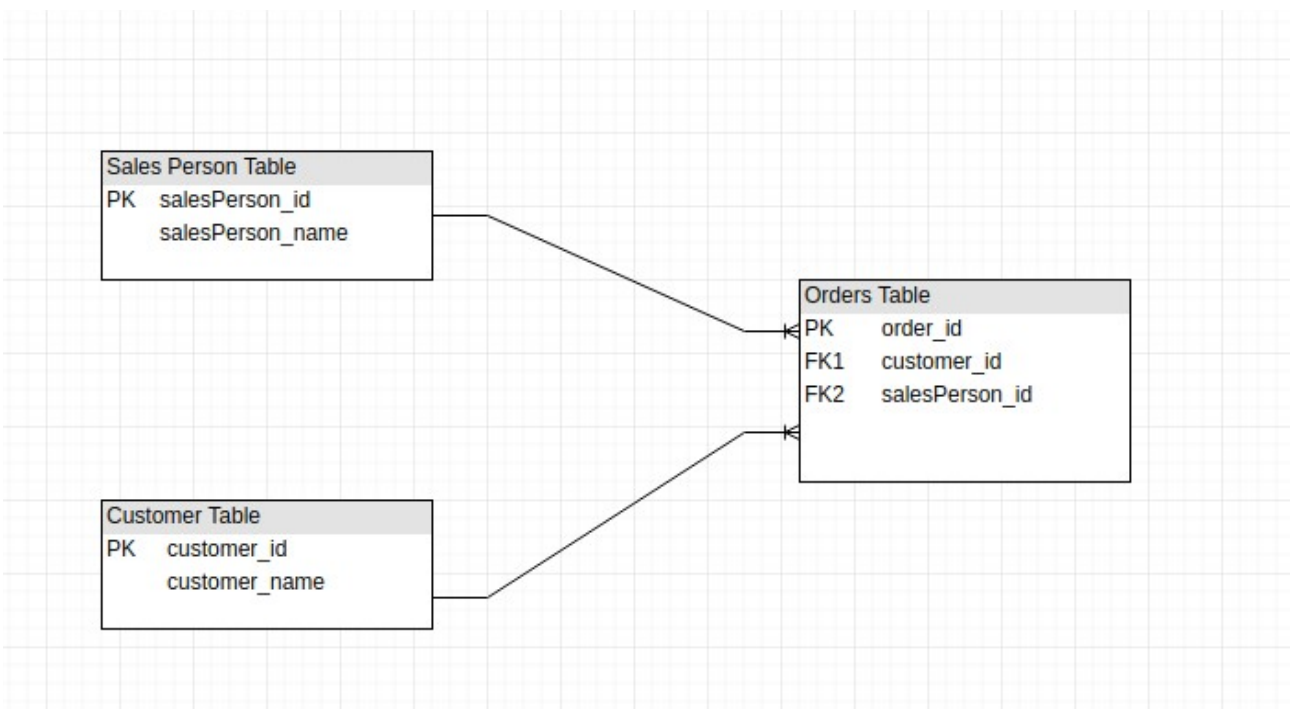
```
Activities Terminal Wed 11:40 PM
File Edit View Search Terminal Help
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use n
ear 'database' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.03 sec)

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| shopping |
| sys |
+-----+
5 rows in set (0.00 sec)

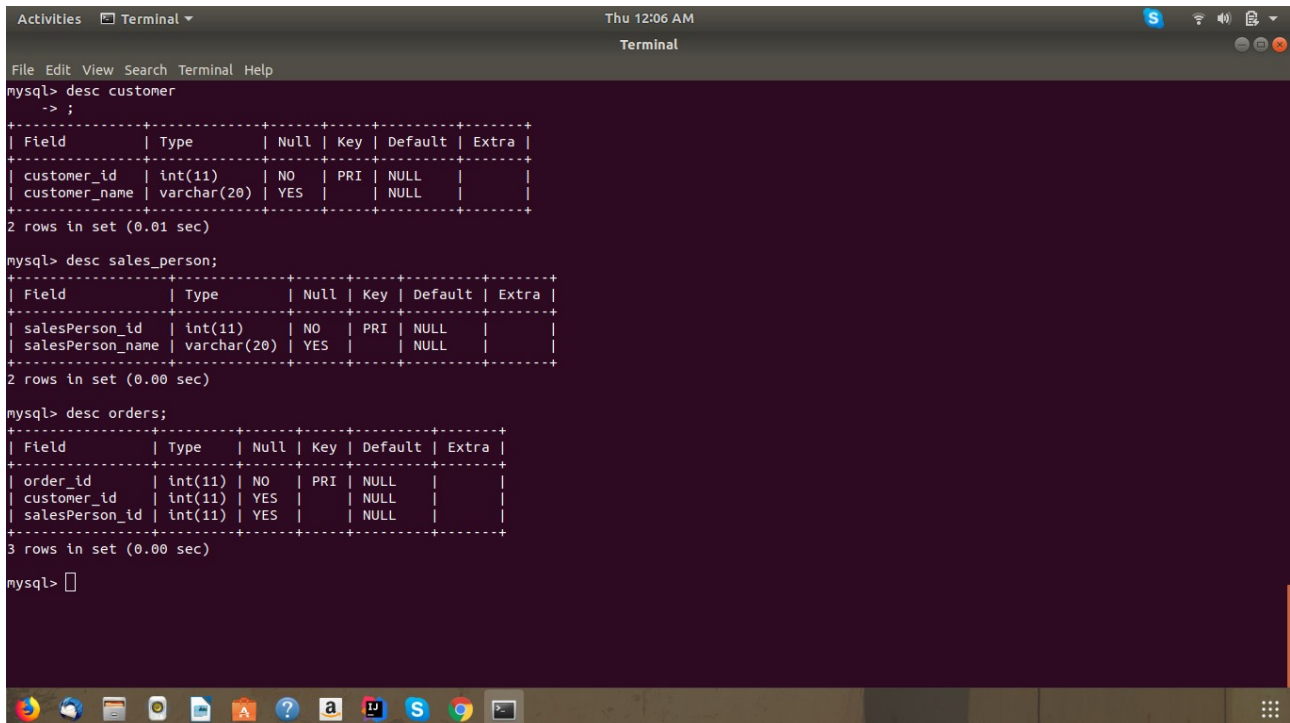
mysql>
```

Ans 2



Ans 3

- 1.create table customer(customer_id integer primary key, customer_name varchar(20));
- 2.create table sales_person(salesPerson_id integer primary key, salesPerson_name varchar(20));
3. create table orders(order_id integer primary key, customer_id integer references customer(customer_id),salesPerson_id integer references sales_person(salesPerson_id));



```
mysql> desc customer;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| customer_id | int(11)    | NO   | PRI | NULL    |       |
| customer_name | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> desc sales_person;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| salesPerson_id | int(11)    | NO   | PRI | NULL    |       |
| salesPerson_name | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> desc orders;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_id    | int(11)    | NO   | PRI | NULL    |       |
| customer_id | int(11)    | YES  |     | NULL    |       |
| salesPerson_id | int(11)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

Ans 4

```
insert into customer values(101,'Gaurav');
insert into customer values(102,'Siddharth');
insert into customer values(103,'Mehak');
insert into customer values(104,'Yatin');
insert into customer values(105,'Vishakha');

insert into sales_person values (201,'TechStars');
insert into sales_person values (202,'CloudTail');
insert into sales_person values (203,'NS Traders');
insert into sales_person values (204,'InfoGain');

insert into orders values(301,101,201);
insert into orders values(302,102,202);
insert into orders values(303,103,202);
insert into orders values(304,105,203);
insert into orders values(305,104,203);
insert into orders values(306,102,204);
insert into orders values(307,104,204);
insert into orders values(308,102,204);
insert into orders values(309,104,201);
insert into orders values(310,102,202);
insert into orders values(311,103,202);
insert into orders values(312,104,203);
insert into orders values(313,103,204);
```

```
Activities Terminal Thu 10:19 AM
Terminal
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+-----+
| customer_id | customer_name |
+-----+
|      101    | Gaurav        |
|      102    | Siddharth     |
|      103    | Mehak         |
|      104    | Yatin         |
|      105    | Vishakha     |
+-----+
5 rows in set (0.00 sec)

mysql> select * from sales_person;
+-----+
| salesPerson_id | salesPerson_name |
+-----+
|           201  | TechStars        |
|           202  | CloudTail        |
|           203  | NS Traders       |
|           204  | InfoGain         |
+-----+
4 rows in set (0.00 sec)

mysql> select * from orders;
+-----+
| order_id | customer_id | salesPerson_id |
+-----+
|      301  |          101 |             201 |
|      302  |          102 |             202 |
|      303  |          103 |             202 |
|      304  |          105 |             203 |
|      305  |          104 |             203 |
|      306  |          102 |             204 |
|      307  |          104 |             204 |
|      308  |          102 |             204 |
|      309  |          104 |             201 |
|      310  |          102 |             202 |
+-----+
```

Ans 5

select o.salesPerson_id, s.salesPerson_name, count(o.order_id) as Total_Orders from orders o, sales_person s where o.salesPerson_id=s.salesPerson_id group by o.salesPerson_id having count(o.order_id)>1;

```
Activities Terminal Thu 1:03 PM
Terminal
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mysql> select o.salesPerson_id, s.salesPerson_name, count(o.order_id) as Total_Orders from orders o, sales_person s where o.salesPerson_id=s.salesPerson_id group by o.salesPerson_id having count(o.order_id)>1;
+-----+
| salesPerson_id | salesPerson_name | Total_Orders |
+-----+
|           201  | TechStars        |             2 |
|           202  | CloudTail        |             4 |
|           203  | NS Traders       |             3 |
|           204  | InfoGain         |             4 |
+-----+
4 rows in set (0.00 sec)

mysql>
```

Ans 6

select o.order_id, o.salesPerson_id, s.salesPerson_name from orders o, sales_person s where o.salesPerson_id=s.salesPerson_id;

```
Activities Terminal Thu 1:06 PM
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mysql> select o.order_id, o.salesPerson_id, s.salesPerson_name from orders o, sales_person s where o.salesPerson_id=s.salesPerson_id;
+-----+-----+-----+
| order_id | salesPerson_id | salesPerson_name |
+-----+-----+-----+
| 301 | 201 | TechStars |
| 302 | 202 | CloudTail |
| 303 | 202 | CloudTail |
| 304 | 203 | NS Traders |
| 305 | 203 | NS Traders |
| 306 | 204 | InfoGain |
| 307 | 204 | InfoGain |
| 308 | 204 | InfoGain |
| 309 | 201 | TechStars |
| 310 | 202 | CloudTail |
| 311 | 202 | CloudTail |
| 312 | 203 | NS Traders |
| 313 | 204 | InfoGain |
+-----+-----+-----+
13 rows in set (0.00 sec)

mysql>
```

Ans 7

create index sales_record on orders(salesPerson_id);

```
Activities Terminal Thu 1:11 PM
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mysql> create index sales_record on orders(salesPerson_id);
Query OK, 0 rows affected (0.42 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```

Ans 8

show index from orders;

```
Activities Terminal Thu 1:18 PM
Terminal
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mysql> show index from orders;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| orders | 0 | PRIMARY | 1 | order_id | A | 13 | NULL | NULL | | BTREE | | |
| orders | 1 | sales_record | 1 | salesPerson_id | A | 4 | NULL | NULL | YES | BTREE | | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql>
```

Ans 9

select o.order_id,s.salesPerson_name,c.customer_name from orders o, sales_person s, customer c where o.salesPerson_id=s.salesPerson_id and o.customer_id=c.customer_id;

```
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mysql> select o.order_id,s.salesPerson_name,c.customer_name from orders o, sales_person s, customer c where o.salesPerson_id=s.salesPerson_id and o.customer_id=c.customer_id;
+-----+-----+-----+
| order_id | salesPerson_name | customer_name |
+-----+-----+-----+
| 301 | TechStars | Gaurav |
| 302 | CloudTail | Siddharth |
| 303 | CloudTail | Mehak |
| 304 | NS Traders | Vishakha |
| 305 | NS Traders | Yatin |
| 306 | InfoGain | Siddharth |
| 307 | InfoGain | Yatin |
| 308 | InfoGain | Siddharth |
| 309 | TechStars | Yatin |
| 310 | CloudTail | Siddharth |
| 311 | CloudTail | Mehak |
| 312 | NS Traders | Yatin |
| 313 | InfoGain | Mehak |
+-----+-----+-----+
13 rows in set (0.01 sec)

mysql>
```