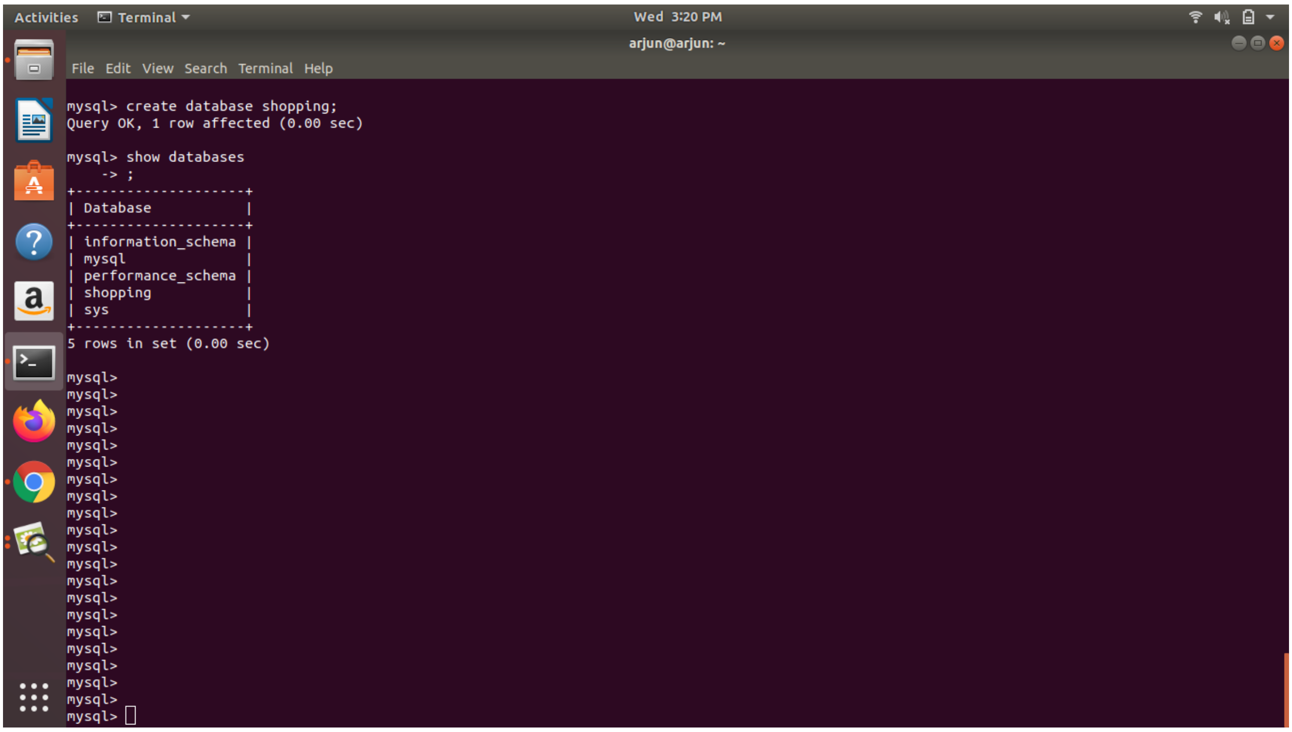
1.Create Database


Activities
Terminal
Wed 3:20 PM
arjun@arjun: ~
File Edit View Search Terminal Help

```
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)

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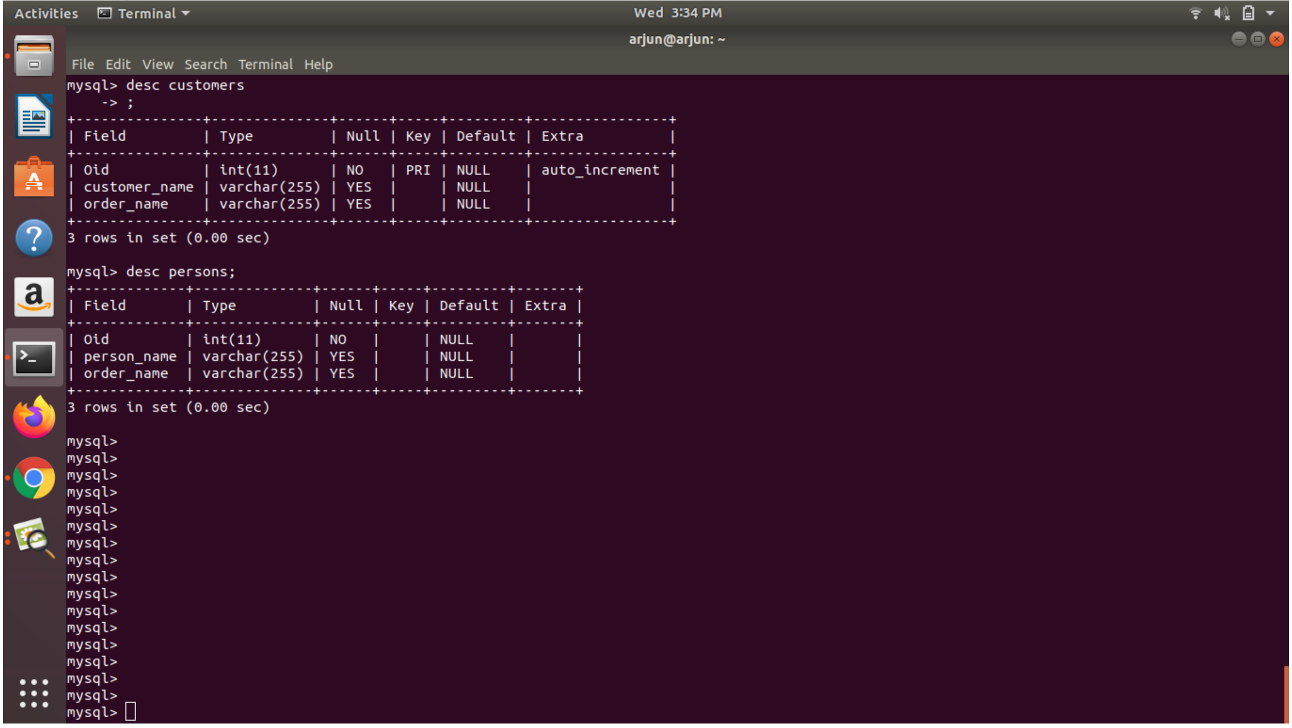
```

2.Design Schema


Activities
Terminal
Wed 3:34 PM
arjun@arjun: ~
File Edit View Search Terminal Help

```
mysql> desc customers
    -> ;
+---------------+--------------+------+-----+---------+----------------+
| Field         | Type         | Null | Key | Default | Extra          |
+---------------+--------------+------+-----+---------+----------------+
| Oid           | int(11)      | NO   | PRI | NULL    | auto_increment |
| customer_name | varchar(255) | YES  |     | NULL    |                |
| order_name    | varchar(255) | YES  |     | NULL    |                |
+---------------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql> desc persons;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| Oid         | int(11)      | NO   |     | NULL    |       |
| person_name | varchar(255) | YES  |     | NULL    |       |
| order_name  | varchar(255) | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

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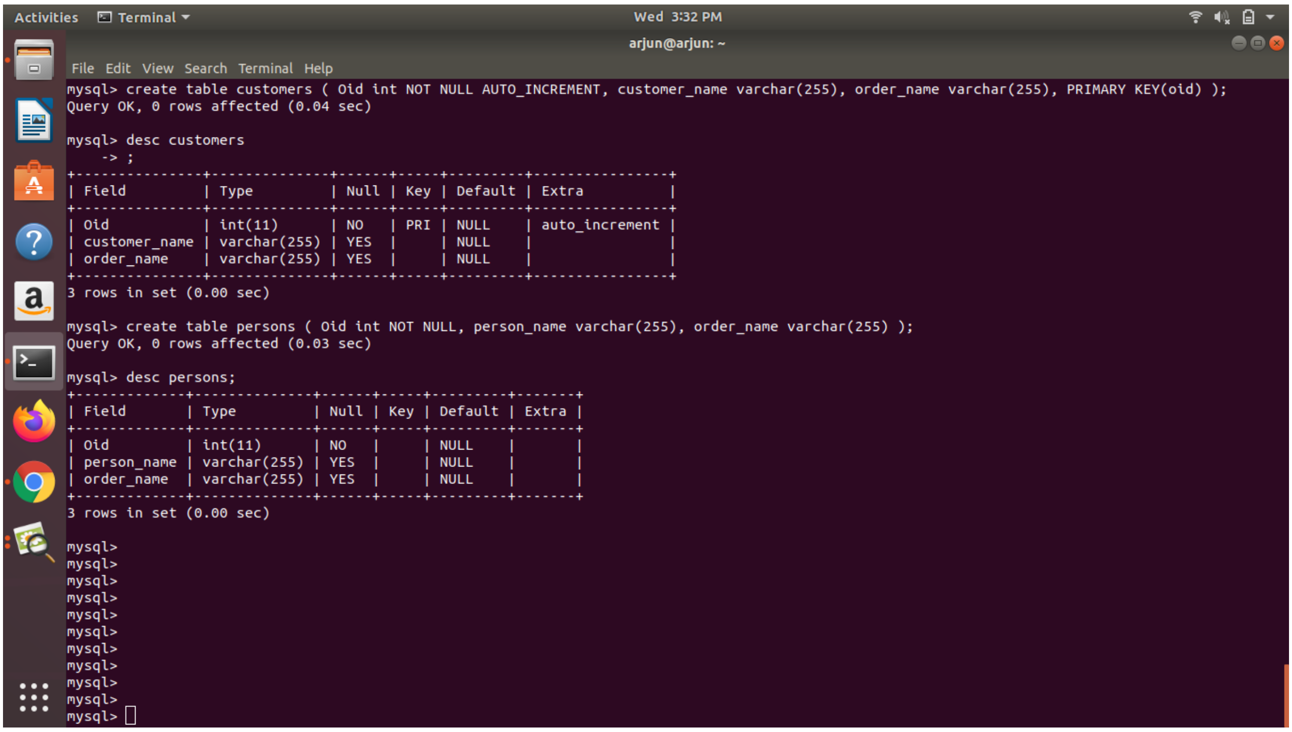
3.Create tables



```
mysql> create table customers ( Oid int NOT NULL AUTO_INCREMENT, customer_name varchar(255), order_name varchar(255), PRIMARY KEY(oid) );
Query OK, 0 rows affected (0.04 sec)

mysql> desc customers
    -> ;
+---------------+--------------+------+-----+---------+----------------+
| Field         | Type         | Null | Key | Default | Extra          |
+---------------+--------------+------+-----+---------+----------------+
| Oid           | int(11)      | NO   | PRI | NULL    | auto_increment |
| customer_name | varchar(255) | YES  |     | NULL    |                |
| order_name    | varchar(255) | YES  |     | NULL    |                |
+---------------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql> create table persons ( Oid int NOT NULL, person_name varchar(255), order_name varchar(255) );
Query OK, 0 rows affected (0.03 sec)

mysql> desc persons;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| Oid         | int(11)      | NO   |     | NULL    |       |
| person_name | varchar(255) | YES  |     | NULL    |       |
| order_name  | varchar(255) | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql>
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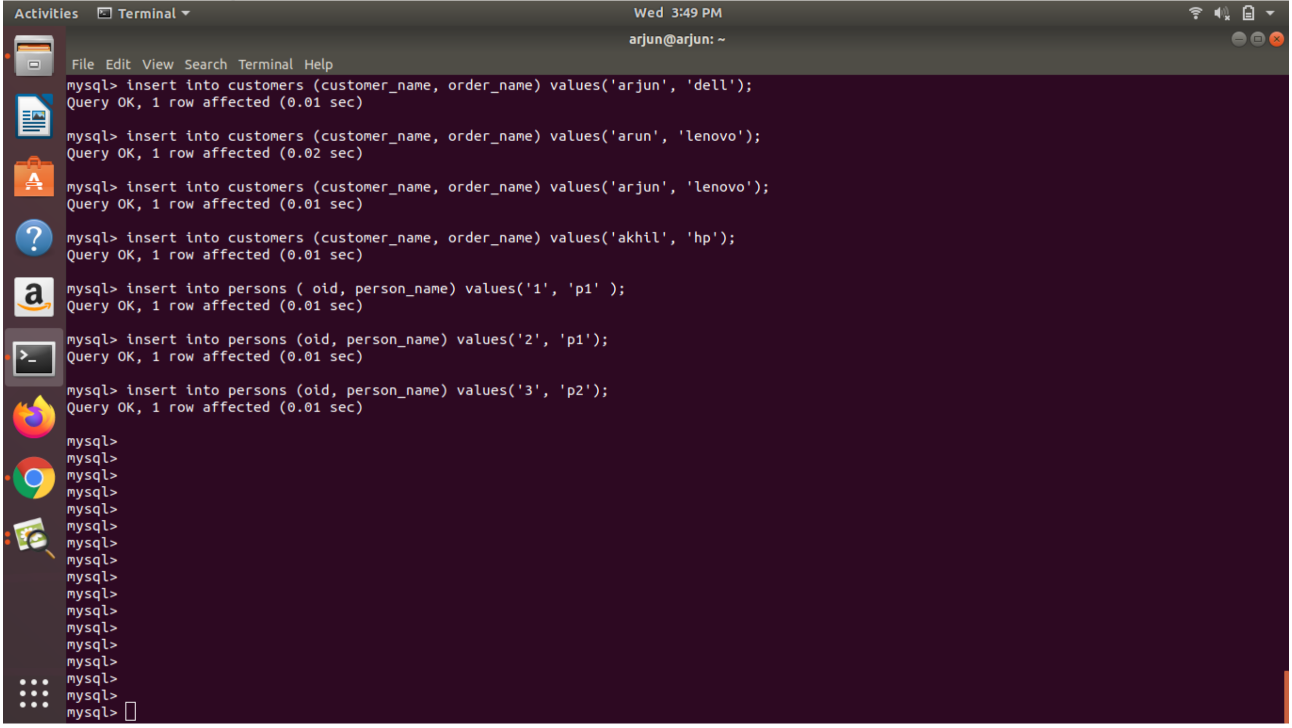
```

4.Insert sample data



```
mysql> insert into customers (customer_name, order_name) values('arjun', 'dell');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customers (customer_name, order_name) values('arun', 'lenovo');
Query OK, 1 row affected (0.02 sec)

mysql> insert into customers (customer_name, order_name) values('arjun', 'lenovo');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customers (customer_name, order_name) values('akhil', 'hp');
Query OK, 1 row affected (0.01 sec)

mysql> insert into persons ( oid, person_name) values('1', 'p1' );
Query OK, 1 row affected (0.01 sec)

mysql> insert into persons (oid, person_name) values('2', 'p1');
Query OK, 1 row affected (0.01 sec)

mysql> insert into persons (oid, person_name) values('3', 'p2');
Query OK, 1 row affected (0.01 sec)

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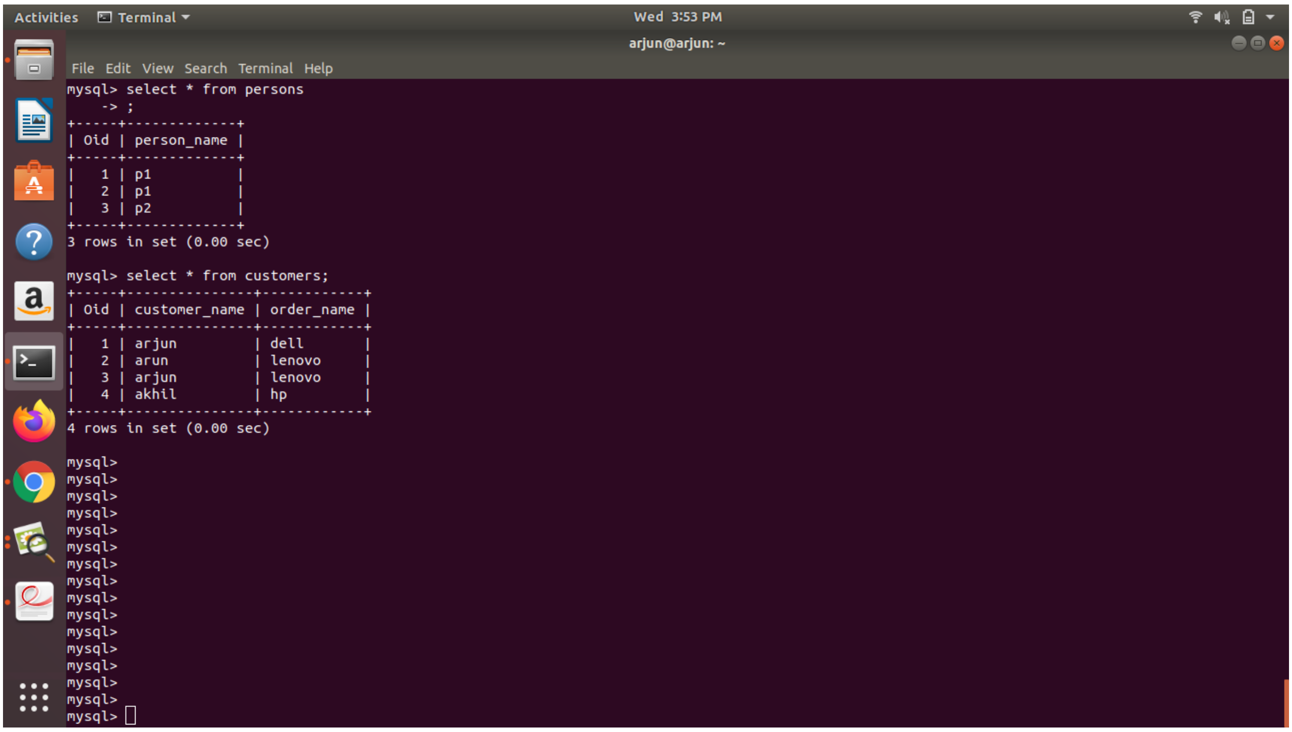
```


Activities
Terminal
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arjun@arjun: ~
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```
mysql> select * from persons
    -> ;
+-----+-------------+
| Oid | person_name |
+-----+-------------+
|   1 | p1          |
|   2 | p1          |
|   3 | p2          |
+-----+-------------+
3 rows in set (0.00 sec)

mysql> select * from customers;
+-----+---------------+------------+
| Oid | customer_name | order_name |
+-----+---------------+------------+
|   1 | arjun         | dell       |
|   2 | arun          | lenovo     |
|   3 | arjun         | lenovo     |
|   4 | akhil         | hp         |
+-----+---------------+------------+
4 rows in set (0.00 sec)

mysql>
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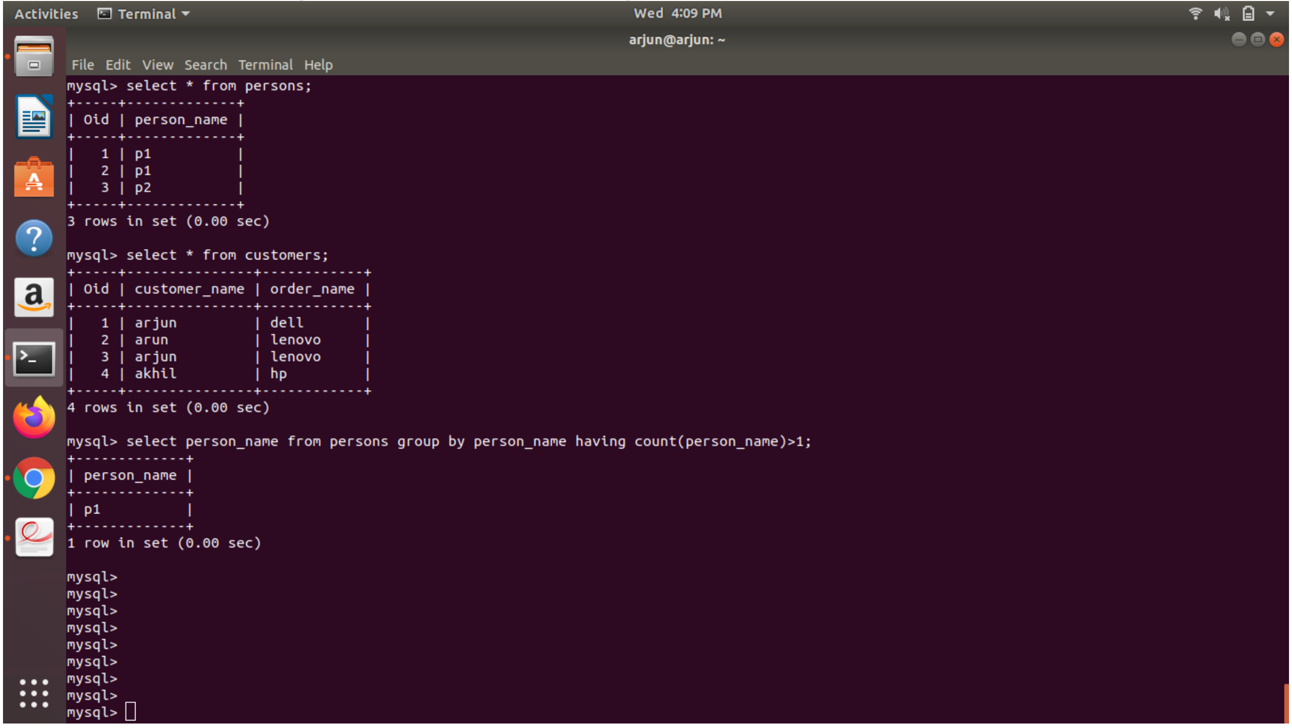
```

5.Find the sales person have multiple orders.


Activities
Terminal
Wed 4:09 PM
arjun@arjun: ~
File Edit View Search Terminal Help

```
mysql> select * from persons;
+-----+-------------+
| Oid | person_name |
+-----+-------------+
|   1 | p1          |
|   2 | p1          |
|   3 | p2          |
+-----+-------------+
3 rows in set (0.00 sec)

mysql> select * from customers;
+-----+---------------+------------+
| Oid | customer_name | order_name |
+-----+---------------+------------+
|   1 | arjun         | dell       |
|   2 | arun          | lenovo     |
|   3 | arjun         | lenovo     |
|   4 | akhil         | hp         |
+-----+---------------+------------+
4 rows in set (0.00 sec)

mysql> select person_name from persons group by person_name having count(person_name)>1;
+-------------+
| person_name |
+-------------+
| p1          |
+-------------+
1 row in set (0.00 sec)

mysql>
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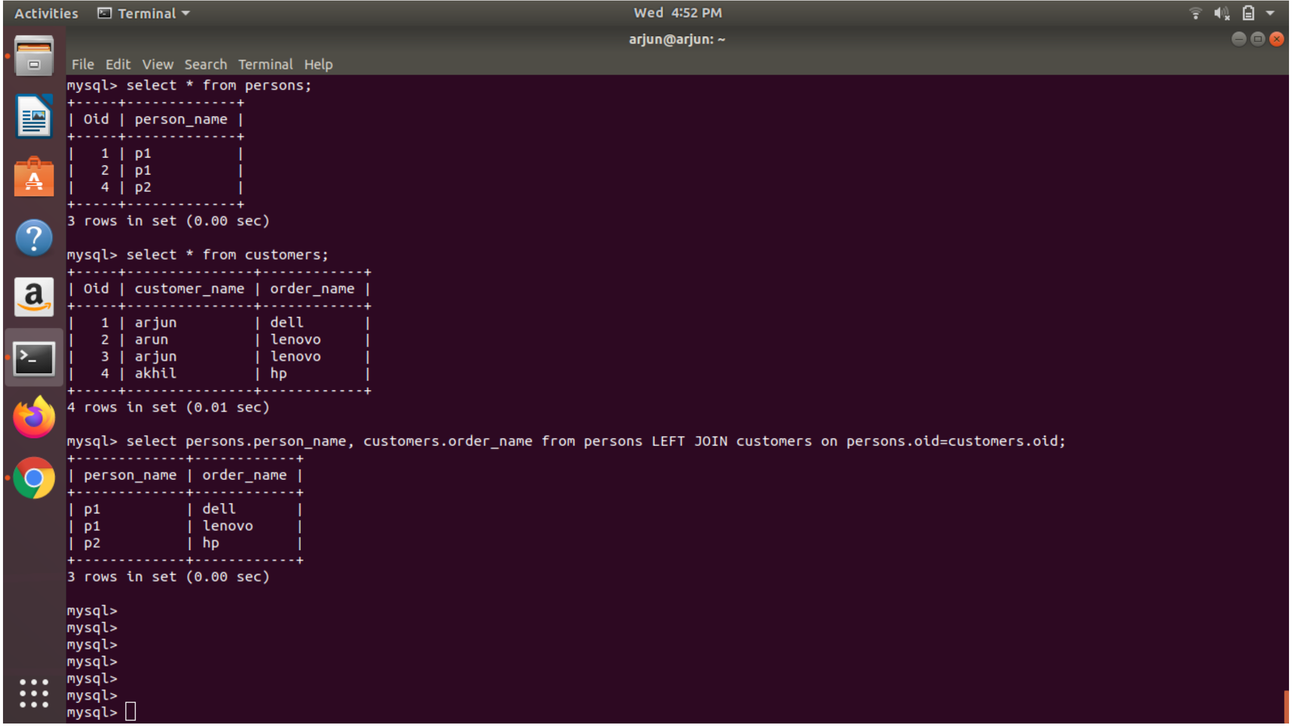
mysql> 
```

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


Activities
Terminal
Wed 4:52 PM
arjun@arjun: ~
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Search
Terminal
Help

```
mysql> select * from persons;
+-----+-------------+
| Oid | person_name |
+-----+-------------+
|   1 | p1          |
|   2 | p1          |
|   4 | p2          |
+-----+-------------+
3 rows in set (0.00 sec)

mysql> select * from customers;
+-----+---------------+------------+
| Oid | customer_name | order_name |
+-----+---------------+------------+
|   1 | arjun         | dell       |
|   2 | arun          | lenovo     |
|   3 | arjun         | lenovo     |
|   4 | akhil         | hp         |
+-----+---------------+------------+
4 rows in set (0.01 sec)

mysql> select persons.person_name, customers.order_name from persons LEFT JOIN customers on persons.oid=customers.oid;
+-------------+------------+
| person_name | order_name |
+-------------+------------+
| p1          | dell       |
| p1          | lenovo     |
| p2          | hp         |
+-------------+------------+
3 rows in set (0.00 sec)

mysql>
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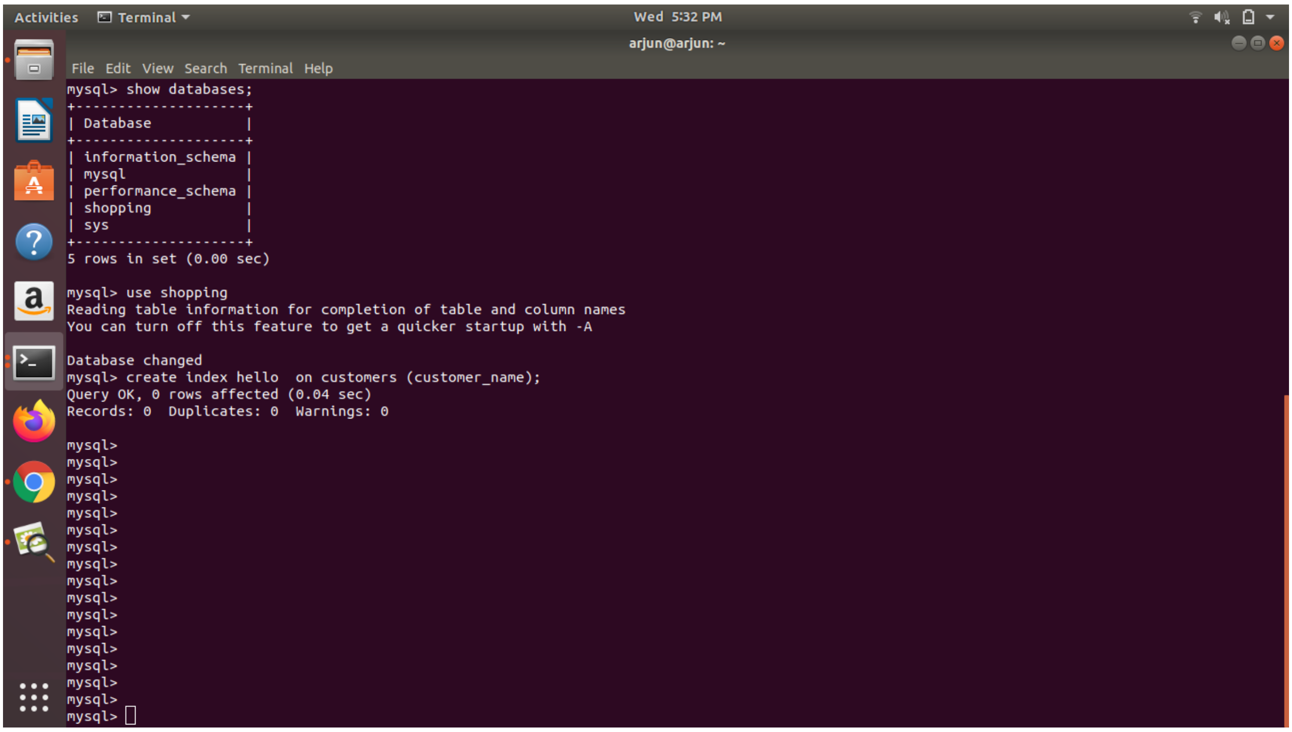
mysql> 
```

7.Create index


Activities
Terminal
Wed 5:32 PM
arjun@arjun: ~
File
Edit
View
Search
Terminal
Help

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

mysql> use shopping
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> create index hello  on customers (customer_name);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0

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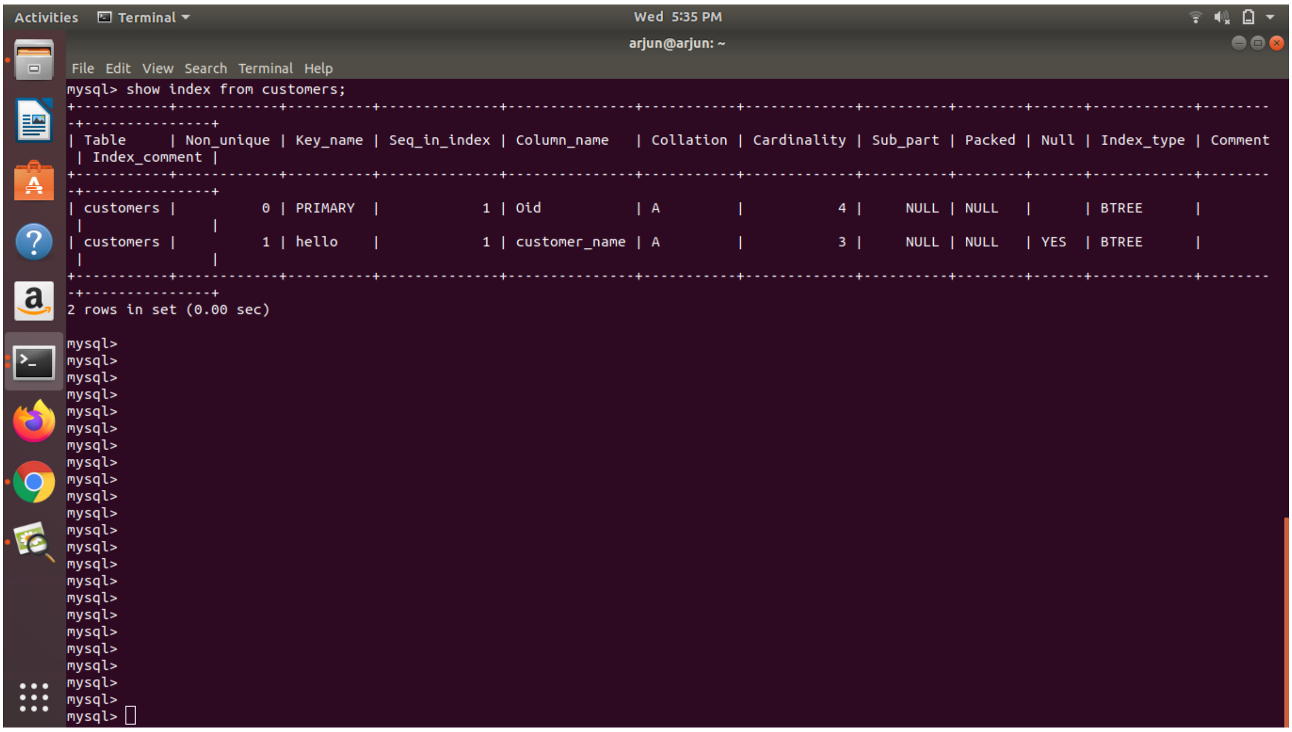
```

8.How to show index on a table


Activities
Terminal
Wed 5:35 PM
arjun@arjun: ~
File Edit View Search Terminal Help

```
mysql> show index from customers;
+-----------+------------+----------+--------------+---------------+-----------+-------------+----------+--------+------+------------+--------
-+---------------+
| Table     | Non_unique | Key_name | Seq_in_index | Column_name   | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment
 | Index_comment |
+-----------+------------+----------+--------------+---------------+-----------+-------------+----------+--------+------+------------+--------
-+---------------+
| customers |          0 | PRIMARY  |            1 | Oid           | A         |           4 |     NULL | NULL   |      | BTREE      |
 |               |
| customers |          1 | hello    |            1 | customer_name | A         |           3 |     NULL | NULL   | YES  | BTREE      |
 |               |
+-----------+------------+----------+--------------+---------------+-----------+-------------+----------+--------+------+------------+--------
-+---------------+
2 rows in set (0.00 sec)

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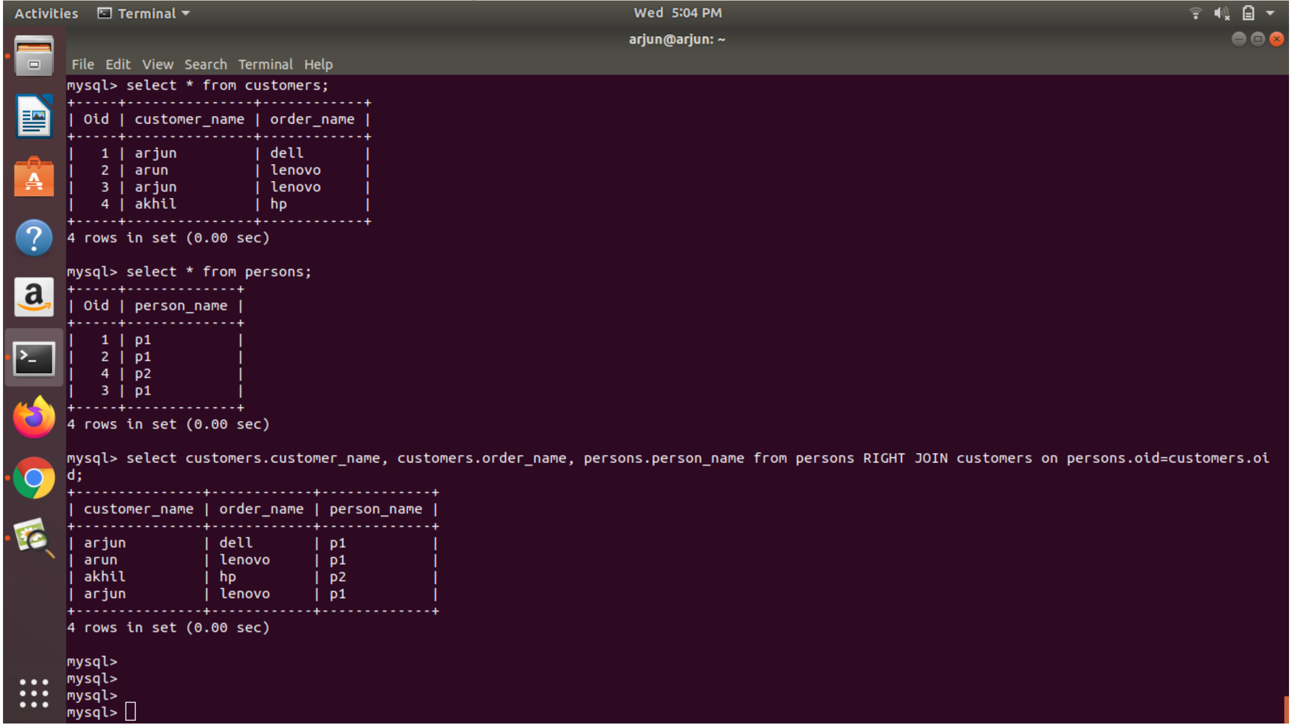
```

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


Activities
Terminal
Wed 5:04 PM
arjun@arjun: ~
File Edit View Search Terminal Help

```
mysql> select * from customers;
+-----+---------------+------------+
| Oid | customer_name | order_name |
+-----+---------------+------------+
|   1 | arjun         | dell       |
|   2 | arun          | lenovo     |
|   3 | arjun         | lenovo     |
|   4 | akhil         | hp         |
+-----+---------------+------------+
4 rows in set (0.00 sec)

mysql> select * from persons;
+-----+-------------+
| Oid | person_name |
+-----+-------------+
|   1 | p1          |
|   2 | p1          |
|   4 | p2          |
|   3 | p1          |
+-----+-------------+
4 rows in set (0.00 sec)

mysql> select customers.customer_name, customers.order_name, persons.person_name from persons RIGHT JOIN customers on persons.oid=customers.oi
d;
+---------------+------------+-------------+
| customer_name | order_name | person_name |
+---------------+------------+-------------+
| arjun         | dell       | p1          |
| arun          | lenovo     | p1          |
| akhil         | hp         | p2          |
| arjun         | lenovo     | p1          |
+---------------+------------+-------------+
4 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
```