1.Create Database

Answer:

create database assignment;

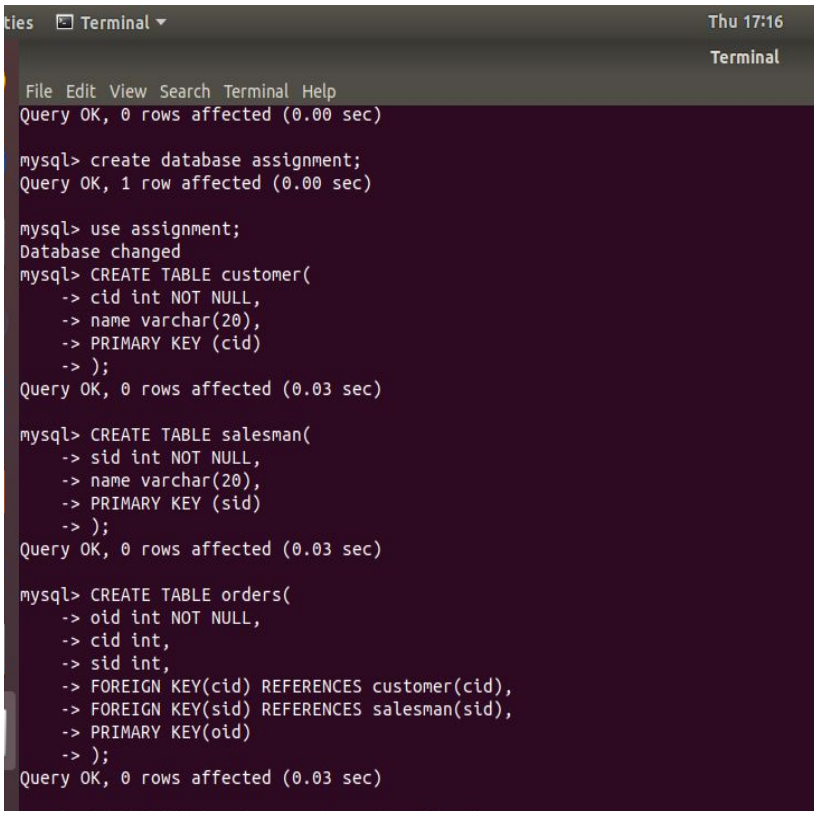
3.Create tables

Answer:

```
CREATE TABLE customer(
cid int NOT NULL,
name varchar(20),
PRIMARY KEY (cid)
);

CREATE TABLE salesman(
sid int NOT NULL,
name varchar(20),
PRIMARY KEY (sid)
);

CREATE TABLE orders(
oid int NOT NULL,
cid int,
sid int,
FOREIGN KEY(cid) REFERENCES customer(cid),
FOREIGN KEY(sid) REFERENCES salesman(sid),
PRIMARY KEY(oid)
);
```



4.Insert sample data

Answer:

```
INSERT INTO customer values (1, "Ajay");
INSERT INTO customer values (2, "Chirag");
INSERT INTO customer values (3, "Jatin");
INSERT INTO customer values (4, "Akash");
INSERT INTO customer values (5, "Harshit");
INSERT INTO customer values (6, "Vikas");
INSERT INTO customer values (6, "Arshad");


INSERT INTO salesman values (1,"Jayant");
INSERT INTO salesman values (2,"Swapnil");
INSERT INTO salesman values (3,"Tushar");
INSERT INTO salesman values (4,"Himanshu");


INSERT INTO orders values(1, 1, 1);
INSERT INTO orders values(2, 1, 1);
INSERT INTO orders values(3, 2, 3);
INSERT INTO orders values(4, 4, 2);
```

```
mysql> INSERT INTO customer values (1, "Ajay");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values (2, "Chirag");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values (3, "Jatin");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values (4, "Aakash");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values (5, "Harshit");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values (6, "Vikash");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values (7, "Arshad");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (1,"Jayant");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (2,"Swapnil");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (3,"Tushar");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (4,"Himanshu");
Query OK, 1 row affected (0.01 sec)
```

```
File  Edit  View  Search  Terminal  Help
mysql> INSERT INTO salesman values (1,"Jayant");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (2,"Swapnil");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (3,"Tushar");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO salesman values (4,"Himanshu");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO orders values(1, 1, 1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO orders values(2, 1, 1);
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO orders values(3, 2, 3);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO orders values(4, 4, 2);
Query OK, 1 row affected (0.01 sec)
```

5.Find the sales person have multiple orders.

Answer:

```
select name
from salesman,orders
where oid>1 AND salesman.sid=orders.sid;
```

```
mysql> select name from salesman,orders where oid>1 AND salesman.sid=orders.sid;
+---------+
| name    |
+---------+
| Jayant  |
| Swapnil |
| Tushar  |
+---------+
3 rows in set (0.00 sec)

mysql>
```

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

Answer:

```
select salesman.sid,name,oid
from salesman,orders
where salesman.sid=orders.sid;
```

```
mysql> select salesman.sid,name,oid
    -> from salesman,orders
    -> where salesman.sid=orders.sid;
+-----+---------+-----+
| sid | name    | oid |
+-----+---------+-----+
|   1 | Jayant  |   1 |
|   1 | Jayant  |   2 |
|   2 | Swapnil |   4 |
|   3 | Tushar  |   3 |
+-----+---------+-----+
4 rows in set (0.00 sec)

mysql>
```

7.Create index

Answer:

```
create index Indexdemo on salesman (sid,name);
```

```
mysql> create index Indexdemo on salesman (sid,name);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

8.How to show index on a table.

Answer:

show index from salesman;

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

mysql>
```

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

Answer:

Select o.oid,s.name,c.name
from orders o,salesman s,customer c
Where c.cid=o.cid;

```
mysql>
mysql> Select o.oid,s.name,c.name from orders o,salesman s,customer c Where c.cid=o.cid;
+------+----------+--------+
| oid  | name     | name   |
+------+----------+--------+
|    1 | Jayant   | Ajay   |
|    2 | Jayant   | Ajay   |
|    3 | Jayant   | Chirag |
|    4 | Jayant   | Aakash |
|    1 | Swapnil  | Ajay   |
|    2 | Swapnil  | Ajay   |
|    3 | Swapnil  | Chirag |
|    4 | Swapnil  | Aakash |
|    1 | Tushar   | Ajay   |
|    2 | Tushar   | Ajay   |
|    3 | Tushar   | Chirag |
|    4 | Tushar   | Aakash |
|    1 | Himanshu | Ajay   |
|    2 | Himanshu | Ajay   |
|    3 | Himanshu | Chirag |
|    4 | Himanshu | Aakash |
+------+----------+--------+
16 rows in set (0.00 sec)

mysql>
```

2.Design Schema