1. Create Databases

```
mysql> create database website
    -> ;
Query OK, 1 row affected (0.00 sec)

mysql> show databases
    -> ;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| SITE               |
| mysql              |
| performance_schema |
| sys                |
| website            |
+--------------------+
6 rows in set (0.00 sec)

mysql> use website
Database changed
```

Q2. Design Schema

```
+--------------------+
6 rows in set (0.01 sec)

mysql> use SITE
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> describe sales_person;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| s_id  | int(11)     | NO   | PRI | NULL    |       |
| name  | varchar(20) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.01 sec)

mysql> describe orders;
+-------+-------------+------+-----+---------+----------------+
| Field | Type        | Null | Key | Default | Extra          |
+-------+-------------+------+-----+---------+----------------+
| o_id  | int(11)     | NO   | PRI | NULL    | auto_increment |
| name  | varchar(40) | YES  |     | NULL    |                |
| s_id  | int(11)     | YES  | MUL | NULL    |                |
| c_id  | int(11)     | YES  | MUL | NULL    |                |
+-------+-------------+------+-----+---------+----------------+
4 rows in set (0.00 sec)

mysql> describe customer;
+-------+-------------+------+-----+---------+----------------+
| Field | Type        | Null | Key | Default | Extra          |
+-------+-------------+------+-----+---------+----------------+
| c_id  | int(11)     | NO   | PRI | NULL    | auto_increment |
| name  | varchar(40) | YES  |     | NULL    |                |
+-------+-------------+------+-----+---------+----------------+
2 rows in set (0.00 sec)

mysql>
```

Q3. Create Table

Q4. Insert sample data

Q5. Find the sales person have multiple orders.

```
Terminal

File Edit View Search Terminal Help
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from orders;
+------+---------+------+------+
| o_id | name    | s_id | c_id |
+------+---------+------+------+
|    1 | shoes   |    2 |    1 |
|    2 | bag     |    2 |    1 |
|    3 | laptops |    1 |    2 |
|    4 | mobiles |    1 |    1 |
|    5 | shoes   |    1 |    2 |
+------+---------+------+------+
5 rows in set (0.00 sec)

mysql> select * from sales_person;
+------+---------+
| s_id | name    |
+------+---------+
|    1 | sandeep |
|    2 | Shreya  |
|    3 | TEjas   |
|    4 | Vinay   |
+------+---------+
4 rows in set (0.00 sec)

mysql> select name from sales_person where (select count(*) from orders where sales_person.s_id=orders.s_id > 1;
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 near '' at line 1
mysql> select name from sales_person where (select count(*) from orders where sales_person.s_id=orders.s_id )> 1;
+---------+
| name    |
+---------+
| sandeep |
| Shreya  |
+---------+
2 rows in set (0.00 sec)

mysql>
```
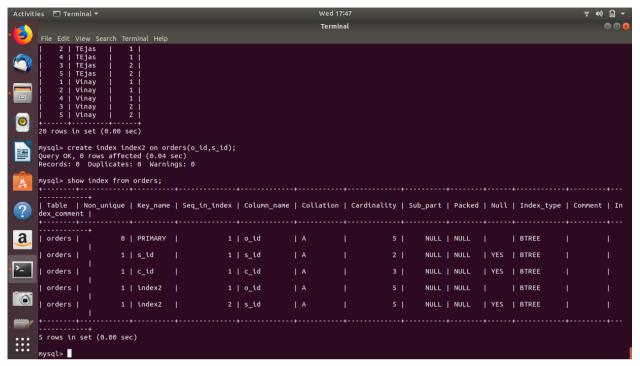
Q6. Find the all sales person details along with order details.

```
mysql> select * from sales_person right join orders on sales_person.s_id=orders.s_id;
+------+---------+------+---------+------+------+
| s_id | name    | o_id | name    | s_id | c_id |
+------+---------+------+---------+------+------+
|    1 | sandeep |    3 | laptops |    1 |    2 |
|    1 | sandeep |    4 | mobiles |    1 |    1 |
|    1 | sandeep |    5 | shoes   |    1 |    2 |
|    2 | Shreya  |    1 | shoes   |    2 |    1 |
|    2 | Shreya  |    2 | bag     |    2 |    1 |
+------+---------+------+---------+------+------+
5 rows in set (0.01 sec)
```

Q7. Create index

```
mysql> create index index2 on orders(o_id,s_id);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Q8. How to show index on a table.


```
|    2 | TEjas   |     1 |
|    4 | TEjas   |     1 |
|    3 | TEjas   |     2 |
|    5 | TEjas   |     2 |
|    1 | Vinay   |     1 |
|    2 | Vinay   |     1 |
|    4 | Vinay   |     1 |
|    3 | Vinay   |     2 |
|    5 | Vinay   |     2 |
+------+---------+-------+
20 rows in set (0.00 sec)

mysql> create index index2 on orders(o_id,s_id);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0

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 | o_id        | A         |           5 |     NULL | NULL   |      | BTREE      |         |               |
| orders |          1 | s_id     |            1 | s_id        | A         |           2 |     NULL | NULL   | YES  | BTREE      |         |               |
| orders |          1 | c_id     |            1 | c_id        | A         |           3 |     NULL | NULL   | YES  | BTREE      |         |               |
| orders |          1 | index2   |            1 | o_id        | A         |           5 |     NULL | NULL   |      | BTREE      |         |               |
| orders |          1 | index2   |            2 | s_id        | A         |           5 |     NULL | NULL   | YES  | BTREE      |         |               |
+--------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+
5 rows in set (0.00 sec)

mysql>
```

Q9. Find the order number, sale person name, along with the customer to whom that order belongs to


```
+--------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+
| 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 | o_id        | A         |           5 |     NULL | NULL   |      | BTREE      |         |               |
| orders |          1 | s_id     |            1 | s_id        | A         |           2 |     NULL | NULL   | YES  | BTREE      |         |               |
| orders |          1 | c_id     |            1 | c_id        | A         |           3 |     NULL | NULL   | YES  | BTREE      |         |               |
| orders |          1 | index2   |            1 | o_id        | A         |           5 |     NULL | NULL   |      | BTREE      |         |               |
| orders |          1 | index2   |            2 | s_id        | A         |           5 |     NULL | NULL   | YES  | BTREE      |         |               |
+--------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+
5 rows in set (0.00 sec)

mysql> select o.o_id as order_id, c.name as customername, s.name as SalespersonName from sales sales_person s,customer c,orders o where s.s_id
=o.s_id and c.c_id=o.c_id;
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 near 's,customer c,orders o where s.s_id=o.s_id and c.c_id=o.c_id' at line 1
mysql> select o.o_id as order_id, c.name as customername, s.name as SalespersonName from sales_person s,customer c,orders o where s.s_id=o.s_i
d and c.c_id=o.c_id;
+----------+--------------+-----------------+
| order_id | customername | SalespersonName |
+----------+--------------+-----------------+
|        1 | sandeep      | Shreya          |
|        2 | sandeep      | Shreya          |
|        3 | pradeep      | sandeep         |
|        4 | sandeep      | sandeep         |
|        5 | pradeep      | sandeep         |
+----------+--------------+-----------------+
5 rows in set (0.00 sec)

mysql>
```