

1. Create Database

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| db_session |
| mysql |
| performance_schema |
| sales |
| sys |
+-----+
6 rows in set (0.01 sec)
```

2. Design Schema

```
mysql> describe orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_num | bigint(20) | NO | PRI | NULL | |
| sp_name | char(20) | NO | | NULL | |
| sp_id | bigint(20) | NO | | NULL | |
| cust_name | char(20) | YES | | NULL | |
| order_details | varchar(200) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

3. Create tables

```
mysql> use sales
Database changed
mysql> create table orders(
  -> order_num bigint(20) not null,
  -> sp_name char(20) not null,
  -> sp_id bigint(20) not null,
  -> cust_name char (20),
  -> order_details varchar(200),
  -> primary key(order_num)
  -> );
Query OK, 0 rows affected (0.29 sec)

mysql> █
```

4. Insert sample data

```
mysql> insert into orders values(42,'Ram',1,'titu','sugar');
Query OK, 1 row affected (0.06 sec)

mysql> insert into orders values(43,'Shyam',2,'chunnu','candy');
Query OK, 1 row affected (0.04 sec)

mysql> insert into orders values(44,'Ghanshyam',3,'munnu','chocolate');
Query OK, 1 row affected (0.07 sec)

mysql> insert into orders values(45,'Ram',1,'uttam','salt');
Query OK, 1 row affected (0.06 sec)

mysql> insert into orders values(46,'Ghanshyam',3,'dhanno','grass');
Query OK, 1 row affected (0.06 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+
| order_num | sp_name | sp_id | cust_name | order_details |
+-----+-----+-----+-----+-----+
| 42 | Ram | 1 | titu | sugar |
| 43 | Shyam | 2 | chunnu | candy |
| 44 | Ghanshyam | 3 | munnu | chocolate |
| 45 | Ram | 1 | uttam | salt |
| 46 | Ghanshyam | 3 | dhanno | grass |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> █
```

5. Find the sales person have multiple orders.

```
mysql> select sp_name from orders group by sp_name having count(sp_id)>1
-> ;
+-----+
| sp_name |
+-----+
| Ghanshyam |
| Ram      |
+-----+
2 rows in set (0.00 sec)

mysql>
```

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

```
mysql> select sp_id,sp_name,order_details from orders
-> ;
```

sp_id	sp_name	order_details
1	Ram	sugar
2	Shyam	candy
3	Ghanshyam	chocolate
1	Ram	salt
3	Ghanshyam	grass

```
5 rows in set (0.00 sec)
```

```
mysql> 
```

7. Create index

```
mysql> create index orders_index on orders(order_details);
Query OK, 0 rows affected (0.38 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

8. How to show index on a table

```
mysql> show index from orders;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment
orders	0	PRIMARY	1	order_num	A	4	NULL	NULL		BTREE	
orders	1	orders_index	1	order_details	A	5	NULL	NULL	YES	BTREE	

2 rows in set (0.00 sec)

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

```
mysql> select order_num,sp_name,cust_name from orders;
```

order_num	sp_name	cust_name
42	Ram	titu
43	Shyam	chunnu
44	Ghanshyam	munnu
45	Ram	uttam
46	Ghanshyam	dhanno

```
5 rows in set (0.00 sec)
```

```
mysql> █
```