

```
MariaDB [orderprocessing]> create table Salesman(  
-> salesman_id int not null,  
-> salesman_name varchar(20) not null,  
-> city varchar(20) not null,  
-> commission int not null,  
-> primary key(salesman_id)  
-> );
```

Query OK, 0 rows affected (0.097 sec)

```
MariaDB [orderprocessing]> create table Customer(  
-> customer_id int not null,  
-> customer_name varchar(20) not null,  
-> city varchar(20) not null,  
-> grade int not null,  
-> salesman_id int,  
-> primary key(customer_id),  
-> foreign key(salesman_id) references Salesman(sale  
sman_id) on delete set  
-> null  
-> );
```

Query OK, 0 rows affected (0.015 sec)

```
MariaDB [orderprocessing]> create table Orders(  
-> order_id int not null,  
-> purchase_amt int not null,  
-> order_date date not null,  
-> customer_id int not null,  
-> salesman_id int,  
-> primary key(order_id),  
-> foreign key(customer_id) references Customer(cust  
omer_id),  
-> foreign key(salesman_id) references Salesman(sale  
sman_id) on delete set  
-> null  
-> );
```

Query OK, 0 rows affected (0.018 sec)

```
MariaDB [orderprocessing]> insert into Salesman(salesman  
_id,salesman_name,city,commission)  
-> values (1000,'John','Bangalore',25),  
-> (2000,'Ravi','Bangalore',20),  
-> (3000,'Kumar','Mysore',15),  
-> (4000,'Smith','Delhi',30),  
-> (5000,'Harsha','Hyderabad',15);
```

Query OK, 5 rows affected (0.047 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
MariaDB [orderprocessing]> insert into Customer(customer  
_id,customer_name,city,grade,salesman_id)  
-> values (10,'Preethi','Bangalore',100,1000),  
-> (11,'Vivek','Mangalore',300,1000),  
-> (12,'Bhaskar','Chennai',400,2000),  
-> (13,'Chethan','Bangalore',200,2000),
```

```
-> (14,'Mamatha','Bangalore',400,3000);
```

```
Query OK, 5 rows affected (0.006 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
MariaDB [orderprocessing]> insert into Orders(order_id,purchase_amt,order_date,customer_id,salesman_id)
```

```
-> values (50,5000,'2017-05-04',10,1000),
```

```
-> (51,450,'2017-01-20',10,2000),
```

```
-> (52,1000,'2017-02-24',13,2000),
```

```
-> (53,3500,'2017-04-13',14,3000),
```

```
-> (54,550,'2017-03-09',12,2000);
```

```
Query OK, 5 rows affected (0.006 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
MariaDB [orderprocessing]> select * from Salesman;
```

salesman_id	salesman_name	city	commission
1000	John	Bangalore	25
2000	Ravi	Bangalore	20
3000	Kumar	Mysore	15
4000	Smith	Delhi	30
5000	Harsha	Hyderabad	15

```
5 rows in set (0.003 sec)
```

```
MariaDB [orderprocessing]> select * from Customer;
```

customer_id	customer_name	city	grade	salesman_id
10	Preethi	Bangalore	100	
11	Vivek	Mangalore	300	
12	Bhaskar	Chennai	400	
13	Chethan	Bangalore	200	
14	Mamatha	Bangalore	400	

```
5 rows in set (0.002 sec)
```

```
MariaDB [orderprocessing]> select * from Orders;
```

order_id	purchase_amt	order_date	customer_id	salesman_id
50	5000	2017-05-04	10	1000
51	450	2017-01-20	10	2000
52	1000	2017-02-24	13	2000
53	3500	2017-04-13	14	3000
54	550	2017-03-09	12	2000

```
5 rows in set (0.012 sec)
```

```
MariaDB [orderprocessing]>
MariaDB [orderprocessing]> select count(customer_name) f
rom Customer where grade > (select avg(grade)
-> from Customer where city = 'Bangalore');
```

count(customer_name)
3

```
1 row in set (0.069 sec)
```

```
MariaDB [orderprocessing]> select distinct c.salesman_id
,s.salesman_name from Customer c,Salesman s
-> where c.salesman_id = s.salesman_id
-> and 1 < (select count(customer_id) from Customer
where salesman_id =
-> c.salesman_id);
```

salesman_id	salesman_name
1000	John
2000	Ravi

```
2 rows in set (0.027 sec)
```

```

MariaDB [orderprocessing]> select s.salesman_name,c.customer_name from Salesman s, Customer c
    -> where s.salesman_id = c.salesman_id and c.city = s.city
    -> union
    -> select s.salesman_name,'No Match' from Salesman s, Customer c
    -> where s.salesman_id = c.salesman_id and c.city != s.city;

```

salesman_name	customer_name
John	Preethi
Ravi	Chethan
John	No Match
Ravi	No Match
Kumar	No Match

5 rows in set (0.009 sec)

```

MariaDB [orderprocessing]> create view salesman_view as
select o.order_date,salesman_id,sum(o.purchase_amt) from
Orders o group by order_date having sum(purchase_amt) =
(select max(sum(purchase_amt)) from Customer where order_date = o.order_date and salesman_id = o.salesman_id);
Query OK, 0 rows affected (0.091 sec)

```

```
MariaDB [orderprocessing]> Delete from Salesman where salesman_id = 1000; select * from Salesman; select * from Orders;
```

```
Query OK, 1 row affected (0.103 sec)
```

salesman_id	salesman_name	city	commission
2000	Ravi	Bangalore	20
3000	Kumar	Mysore	15
4000	Smith	Delhi	30
5000	Harsha	Hyderabad	15

```
4 rows in set (0.006 sec)
```

order_id	purchase_amt	order_date	customer_id	salesman_id
50	5000	2017-05-04	10	
51	450	2017-01-20	10	
52	1000	2017-02-24	13	
53	3500	2017-04-13	14	
54	550	2017-03-09	12	

```
5 rows in set (0.001 sec)
```

```
MariaDB [orderprocessing]> █
```