Assignment No. : 3
Group : A

mysql>create database Sales; Query
OK, 1 row affected (0.16 sec)

mysql> use Sales;
Database changed

mysql> create table Sales_Representative(Rep_no int(10) PRIMARY KEY,Name
varchar(20),Re_office varchar(20),Quota varchar(20),sales varchar(20)); Query
OK, 0 rows affected, 1 warning (0.35 sec)

mysql> desc Sales_Representative;

```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Rep_no    | int         | NO   | PRI | NULL    |       |
| Name      | varchar(20) | YES  |     | NULL    |       |
| Re_office | varchar(20) | YES  |     | NULL    |       |
| Quota     | varchar(20) | YES  |     | NULL    |       |
| sales     | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
```
5 rows in set (0.03 sec)

mysql> create table Customers(Cust_no int(10) PRIMARY KEY,Company varchar(20),Cust_Rep
int(10),Credit_Limit float(10),FOREIGN KEY (Cust_Rep) REFERENCES
Sales_Representative(Rep_no));
Query OK, 0 rows affected, 2 warnings (0.50 sec)

mysql> desc Customer;
ERROR 1146 (42S02): Table 'Sales.Customer' doesn't exist mysql>
desc Customers;

```
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| Cust_no      | int         | NO   | PRI | NULL    |       |
| Company      | varchar(20) | YES  |     | NULL    |       |
| Cust_Rep     | int         | YES  | MUL | NULL    |       |
| Credit_Limit | float       | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
```
4 rows in set (0.00 sec)

mysql> create table Orders(Order_no int(10) PRIMARY KEY,Cust int(10),Product
varchar(20),Quantity int(100),Amount float(10),Disc int(5),FOREIGN KEY (Cust) REFERENCES
Customers(Cust_no));
Query OK, 0 rows affected, 4 warnings (0.57 sec)

```
mysql> desc Orders;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| Order_no | int         | NO   | PRI | NULL    |       |
| Cust     | int         | YES  | MUL | NULL    |       |
| Product  | varchar(20) | YES  |     | NULL    |       |
| Quantity | int         | YES  |     | NULL    |       |
| Amount   | float       | YES  |     | NULL    |       |
| Disc     | int         | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

mysql> insert into Sales_Representative values('100','Pratik','01','Marketing','13000'); Query OK, 1 row affected (0.01 sec)
mysql> insert into Sales_Representative values('200','Tejas','02','Manufactur','14000'); Query OK, 1 row affected (0.01 sec)
mysql> insert into Sales_Representative values('300','Kirtesh','01','Marketing','12000'); Query OK, 1 row affected (0.01 sec)
mysql> insert into Sales_Representative values('400','Tejas','03','Marketing','10000'); Query OK, 1 row affected (0.00 sec)

```
mysql> select * from Sales_Representative;
+--------+---------+-----------+------------+-------+
| Rep_no | Name    | Re_office | Quota      | sales |
+--------+---------+-----------+------------+-------+
|    100 | Pratik  | 01        | Marketing  | 13000 |
|    200 | Tejas   | 02        | Manufactur | 14000 |
|    300 | Kirtesh | 01        | Marketing  | 12000 |
|    400 | Tejas   | 03        | Marketing  | 10000 |
+--------+---------+-----------+------------+-------+
4 rows in set (0.01 sec)
```

mysql> insert into Customers values('1000','TCS','100','50000'); Query OK, 1 row affected (0.00 sec)
mysql> insert into Customers values('2000','INFOSYS','200','75000'); Query OK, 1 row affected (0.01 sec)
mysql> insert into Customers values('3000','Mahindra','300','60000'); Query OK, 1 row affected (0.02 sec)
mysql> insert into Customers values('4000','Wipro','400','55000');
Query OK, 1 row affected (0.01 sec)

```
mysql> select * from Customers;
+---------+----------+----------+--------------+
| Cust_no | Company  | Cust_Rep | Credit_Limit |
+---------+----------+----------+--------------+
|    1000 | TCS      |      100 |        50000 |
|    2000 | INFOSYS  |      200 |        75000 |
|    3000 | Mahindra |      300 |        60000 |
|    4000 | Wipro    |      400 |        55000 |
+---------+----------+----------+--------------+
4 rows in set (0.01 sec)

mysql> insert into Orders values('101','1000','Laptop','50','1500000','150000'); Query
OK, 1 row affected (0.01 sec)
mysql> insert into Orders values('102','2000','PC','30','900000','90000'); Query
OK, 1 row affected (0.00 sec)
mysql> insert into Orders values('103','3000','Monitors','40','1000000','100000'); Query
OK, 1 row affected (0.01 sec)
mysql> insert into Orders values('104','4000','CPU','20','400000','40000'); Query
OK, 1 row affected (0.00 sec)

mysql> select * from Orders;
+----------+------+----------+----------+---------+--------+
| Order_no | Cust | Product  | Quantity | Amount  | Disc   |
+----------+------+----------+----------+---------+--------+
|      101 | 1000 | Laptop   |       50 | 1500000 | 150000 |
|      102 | 2000 | PC       |       30 |  900000 |  90000 |
|      103 | 3000 | Monitors |       40 | 1000000 | 100000 |
|      104 | 4000 | CPU      |       20 |  400000 |  40000 |
+----------+------+----------+----------+---------+--------+
4 rows in set (0.00 sec)
```

1.
```
mysql> select Customers.Company, Sales_Representative.Name, Sales_Representative.Re_office
from Customers inner join Sales_Representative on Customers.Cust_Rep =
Sales_Representative.Rep_no;
+----------+------------+-----------+
| Company  | Name       | Re_office |
+----------+------------+-----------+
| TCS      | Pratik     | 01        |
| INFOSYS  | Tejas      | 02        |
| Mahindra | Kirtesh    | 01        |
| Wipro    | Tejas      | 03        |
+----------+------------+-----------+
4 rows in set (0.00 sec)
```

2.

```
mysql> select Customers.Company,Customers.Credit_Limit, Sales_Representative.Name,
Sales_Representative.sales from Customers inner join Sales_Representative on
Customers.Cust_Rep = Sales_Representative.Rep_no;
+----------+--------------+------------+-------+
| Company  | Credit_Limit | Name       | sales |
+----------+--------------+------------+-------+
| TCS      |        50000 | Pratik     | 13000 |
| INFOSYS  |        75000 | Tejas      | 14000 |
| Mahindra |        60000 | Kirtesh    | 12000 |
| Wipro    |        55000 | Tejas      | 10000 |
+----------+--------------+------------+-------+
4 rows in set (0.00 sec)
```

3.

```
mysql> select Amount, Name, Company from Orders, Sales_Representative, Customers where Cust
= Cust_no AND Cust_Rep = Rep_no AND Amount>400000;
+---------+------------+----------+
| Amount  | Name       | Company  |
+---------+------------+----------+
| 1500000 | Pratik     | TCS      |
|  900000 | Tejas      | INFOSYS  |
| 1000000 | Kirtesh    | Mahindra |
+---------+------------+----------+
3 rows in set (0.00 sec)
```

4.

```
mysql> select a.Order_no, a.Amount, b.Company ,b. Credit_Limit from Orders a, Customers b
where a.Cust=b.Cust_no;
+----------+---------+----------+--------------+
| Order_no | Amount  | Company  | Credit_Limit |
+----------+---------+----------+--------------+
|      101 | 1500000 | TCS      |        50000 |
|      102 |  900000 | INFOSYS  |        75000 |
|      103 | 1000000 | Mahindra |        60000 |
|      104 |  400000 | Wipro    |        55000 |
+----------+---------+----------+--------------+
4 rows in set (0.00 sec)
```

5.

```
mysql> select a.Product ,b.Company from Orders a, Customers b where b.Company='TCS' AND
a.Cust= b.Cust_no; +---------+---------+
| Product | Company |
+---------+---------+
| Laptop  | TCS     |
+---------+---------+
1 row in set (0.00 sec)
```

6.
mysql> SELECT a.Company, MAX(b.Disc) AS MaxDiscount FROM Orders b JOIN Customers a ON b.Cust=a.Cust_no GROUP BY a.Company ORDER BY MaxDiscount Desc LIMIT 1;

```
+---------+-------------+
| Company | MaxDiscount |
+---------+-------------+
| TCS     |      150000 |
+---------+-------------+
1 row in set (0.00 sec)
```

7.
mysql> SELECT a.Name AS Name1, b.Name AS Name2 FROM Sales_Representative a JOIN Sales_Representative b ON a.Re_office=b.Re_office AND a.Rep_no<>b.Rep_no;

```
+-----------+-----------+
| Name1     | Name2     |
+-----------+-----------+
| Kirtesh   | Pratik    |
| Pratik    | Kirtesh   |
+-----------+-----------+
2 rows in set (0.00 sec)
```

8.
mysql> SELECT a.Product, SUM(a.Amount) AS Totalamount FROM Orders a GROUP BY a.Product HAVING SUM(a.Amount)>400000;

```
+----------+-------------+
| Product  | Totalamount |
+----------+-------------+
| Laptop   |     1500000 |
| PC       |      900000 |
| Monitors |     1000000 |
+----------+-------------+
3 rows in set (0.00 sec)
```

9.
mysql> SELECT a.Company AS CustomerName, b.Name AS Rep_Name, c.Amount FROM Orders c JOIN Customers a ON c.Cust=a.Cust_no JOIN Sales_Representative b ON a.Cust_rep=b.Rep_no WHERE c.Product='Monitors';

```
+--------------+----------+---------+
| CustomerName | Rep_Name | Amount  |
+--------------+----------+---------+
| Mahindra     | Kirtesh  | 1000000 |
+--------------+----------+---------+
1 row in set (0.00 sec)
```

10.
mysql> select a.Company,a. Credit_Limit,b. Disc from Customers a,Orders b where b.Cust=a.Cust_no;

+----------+--------------+--------+
| Company | Credit_Limit | Disc |
+----------+--------------+--------+
TCS	50000	150000
INFOSYS	75000	90000
Mahindra	60000	100000
Wipro	55000	40000
+----------+--------------+--------+
4 rows in set (0.00 sec)