

# **Assignment MySQL**

## **Table 1: SalesPeople**

**Snum** is Primary key

**Sname** is Unique constraint

**Snum Sname City Comm**

1001 Peel. London .12

1002 Serres Sanjose .13

1004 Motika London .11

1007 Rifkin Barcelona .15

1003 Axelrod Newyork .10

## **Syntax:**

```
CREATE TABLE salespeople (  
  Snum INT PRIMARY KEY,  
  Sname VARCHAR(30) UNIQUE ,  
  City VARCHAR(30),  
  Comm INT  
);
```

```
mysql> select * from salespeople;
+-----+-----+-----+-----+
| Snum | Sname   | City      | Comm |
+-----+-----+-----+-----+
| 1001 | Peel    | London    | 12    |
| 1002 | Sserres | Sanjose   | 13    |
| 1003 | Axelrod | Newyork   | 10    |
| 1004 | Motika  | London    | 11    |
| 1007 | Rifkin  | Barcelona | 15    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> desc salespeople;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Snum  | int           | NO   | PRI | NULL    |       |
| Sname | varchar(30)   | YES  | UNI | NULL    |       |
| City  | varchar(30)   | YES  |     | NULL    |       |
| Comm  | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.27 sec)
```

## **Table 2: Customers**

**Cnum is Primary Key**

**City has not null constraint .**

**Snum is foreign key constraint refers Snum column of SalesPeople table.**

Cnum Cname City Snum

2001 Hoffman London 1001

2002 Giovanni Rome 1003

2003 Liu Sanjose 1002

2004 Grass Berlin 1002

2006 Clemens London 1001

2008 Cisneros Sanjose 1007

2007 Pereira Rome 1004

### Syntax:

Create Table Customers(Cnum INT PRIMAY KEY,  
Cname VARCHAR(30),  
City VARCHAR(30) NOT NULL,  
Snum INT,  
FOREIGN KEY (Snum) REFERENCES Salespeople(Snum)  
);

```
mysql> desc customers;
```

Field	Type	Null	Key	Default	Extra
Cnum	int	NO	PRI	NULL	
Cname	varchar(30)	YES		NULL	
City	varchar(30)	NO		NULL	
Snum	int	YES	MUL	NULL	

```
rows in set (0.10 sec)
```

```
mysql> select * from customers;
```

Cnum	Cname	City	Snum
2001	Hoffman	London	1001
2002	Giovanni	Rome	1003
2003	Liu	Sanjose	1002
2004	Grass	Berlin	1002
2006	Clemens	London	1001
2007	Pereira	Rome	1004
2008	Cisneros	Sanjose	1007

```
rows in set (0.12 sec)
```

### **Table 3: Orders**

**Onum** is Primary key

**Cnum** is foreign key refers to **Cnum** column of **Customers** table. **Snum** is foreign key refers **Snum** column of **SalesPeople** table.

Onum	Amt	Odate	Cnum	Snum
3001	18.69	3-10-1990	2008	1007
3003	767.19	3-10-1990	2001	1001
3002	1900.10	3-10-1990	2007	1004
3005	5160.45	3-10-1990	2003	1002
3006	1098.16	3-10-1990	2008	1007
3009	1713.23	4-10-1990	2002	1003
3007	75.75	4-10-1990	2004	1002
3008	4273.00	5-10-1990	2006	1001
3010	1309.95	6-10-1990	2004	1002
3011	9891.88	6-10-1990	2006	1001

### **Syntax:**

```
CREATE TABLE orders (  
  Onum INT PRIMARY KEY,  
  Amt decimal(6,2),  
  Odate VARCHAR(10) NOT NULL,
```

Cnum INT NOT NULL,

Snum INT NOT NULL,

FOREIGN KEY (Cnum) REFERENCES Customers(Cnum),

FOREIGN KEY (Snum) REFERENCES Salespeople(Snum)

);

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
Onum	int	NO	PRI	NULL	
Amt	decimal(6,2)	YES		NULL	
Odate	varchar(10)	NO		NULL	
Cnum	int	NO	MUL	NULL	
Snum	int	NO	MUL	NULL	

5 rows in set (0.01 sec)

```
mysql> select * from orders;
```

Onum	Amt	Odate	Cnum	Snum
3001	18.69	3-10-1990	2008	1007
3002	1900.10	3-10-1990	2007	1004
3003	767.19	3-10-1990	2001	1001
3005	5160.45	3-10-1990	2003	1002
3006	1098.16	3-10-1990	2008	1007
3007	75.75	4-10-1990	2004	1002
3008	4273.00	5-10-1990	2006	1001
3009	1713.23	4-10-1990	2002	1003
3010	1309.95	6-10-1990	2004	1002
3011	9891.88	6-10-1990	2006	1001

10 rows in set (0.00 sec)

On the basis of above tables specific tasks has been performed according to the questions:

1. Count the number of Salesperson whose name begin with 'a'/'A'.

```
mysql> select count(*) from SalesPeople where Sname like 'a%' or Sname like 'A%';
+-----+
| count(*) |
+-----+
|         1 |
+-----+
1 row in set (0.44 sec)
```

2. Display all the Salesperson whose all orders worth is more than Rs. 2000.

```
mysql> select SalesPeople.Sname from SalesPeople inner join orders on SalesPeople.Snum=orders.Snum;
+-----+
| Sname |
+-----+
| Axelrod |
| Motika |
| Peel |
| Peel |
| Peel |
| Rifkin |
| Rifkin |
| Ssernes |
| Ssernes |
| Ssernes |
+-----+
10 rows in set (0.00 sec)
```

3. Count the number of Salesperson belonging to Newyork.

```
mysql> select Sname from SalesPeople where City='Newyork';
+-----+
| Sname |
+-----+
| Axelrod |
+-----+
1 row in set (0.00 sec)
```

4. Display the number of Salespeople belonging to London and belonging to Paris.

```
mysql> select count(Sname) from SalesPeople where City='London' and City='Paris';
+-----+
| count(Sname) |
+-----+
|              0 |
+-----+
1 row in set (0.00 sec)
```

5. Display the number of orders taken by each Salesperson and their date of orders.

```
mysql> SELECT Odate,Snum,COUNT(*)
-> FROM orders
-> GROUP BY Odate,Snum;
+-----+-----+-----+
| Odate      | Snum  | COUNT(*) |
+-----+-----+-----+
| 3-10-1990  | 1007  | 2        |
| 3-10-1990  | 1004  | 1        |
| 3-10-1990  | 1001  | 1        |
| 3-10-1990  | 1002  | 1        |
| 4-10-1990  | 1002  | 1        |
| 5-10-1990  | 1001  | 1        |
| 4-10-1990  | 1003  | 1        |
| 6-10-1990  | 1002  | 1        |
| 6-10-1990  | 1001  | 1        |
+-----+-----+-----+
9 rows in set (0.03 sec)
```