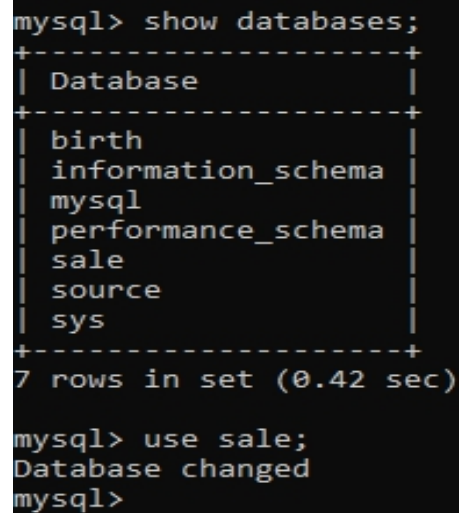


# MYSQL DATABASE ASSINGMENT-1

Creating database:

```
CREATE DATABASE SALE;  
USE SALE;
```



```
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| birth    |  
| information_schema |  
| mysql    |  
| performance_schema |  
| sale     |  
| source   |  
| sys      |  
+-----+  
7 rows in set (0.42 sec)  
  
mysql> use sale;  
Database changed  
mysql>
```

Creating SalesPeople Table:

```
create table SalesPeople (  
    Snum int NOT NULL,  
    Sname varchar(25) NOT NULL,  
    City varchar(25),  
    comm int NOT NULL,  
    PRIMARY KEY (Snum),  
    UNIQUE KEY (Sname)  
);
```

```
INSERT INTO SalesPeople  
values(1001,'Peel','London',12),  
(1002,'Serres','Sanjose',13),  
(1004,'Motika','London',11),  
(1007,'Rifkin','Barcelona',15),  
(1003,'Axelrod','Newyork',10);
```

Creating Customers Table:

```
create table Customers(  
Cnum int NOT NULL,  
Cname varchar(25) NOT NULL,  
city varchar(25),  
Snum int,  
PRIMARY KEY (Cnum),  
FOREIGN KEY (Snum) REFERENCES SalesPeople (Snum)  
ON DELETE CASCADE  
);
```

```
INSERT INTO Customers  
values(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);
```

Creating Orders Table:

```
create table Orders(  
Onum int NOT NULL,  
Amt float,  
Odate date,  
Cnum int,  
Snum int,  
PRIMARY KEY (Onum),  
FOREIGN KEY (Cnum) REFERENCES Customers (Cnum)  
ON DELETE CASCADE,  
FOREIGN KEY (Snum) REFERENCES SalesPeople (Snum)  
ON DELETE CASCADE  
);
```

```
INSERT INTO Orders
values(3001,18.69,'1990-10-3',2008,1007),
(3003,767.19,'1990-10-3',2001,1001),
(3002,1900.10,'1990-10-3',2007,1004),
(3005,5160.45,'1990-10-3',2003,1002),
(3006,1098.16,'1990-10-3',2008,1007),
(3009,1713.23,'1990-10-4',2002,1003),
(3007,75.75,'1990-10-4',2004,1002),
(3008,4273.00,'1990-10-5',2006,1001),
(3010,1309.95,'1990-10-6',2004,1002),
(3011,9891.88,'1990-10-6',2006,1001);
```

Q1)-Count the number of Salesperson whose name begin with 'a'/'A'.

Query:

Select count(Sname) from SalesPeople where Sname Like ('A%') OR ('a%');

```
mysql> select count(Sname) from SalesPeople where Sname Like ('A%') OR ('a%');
+-----+
| count(Sname) |
+-----+
|           1 |
+-----+
1 row in set, 1 warning (0.00 sec)

mysql>
```

Q2)-Display all the Salesperson whose all orders worth is more than Rs. 2000.

Query:

Select \* from SalesPeople where Snum IN(select Snum from Orders where Amt > 2000.00);

```
mysql> select * from SalesPeople where Snum IN (Select Snum from Orders where Amt>2000.00);
+-----+-----+-----+-----+
| Snum | Sname | City   | comm |
+-----+-----+-----+-----+
| 1001 | Peel  | London | 12    |
| 1002 | Serres| Sanjose| 13    |
+-----+-----+-----+-----+
2 rows in set (0.02 sec)
```

Q3)-Count the number of Salesperson belonging to **Newyork**.

Query:

Select distinct Snum,Sname,city from SalesPeople where city = 'London' OR city = 'Pairs';

```
mysql> select distinct Snum,Sname,city from SalesPeople where city = 'London' OR city = 'Paris';
+-----+-----+-----+
| Snum | Sname | city |
+-----+-----+-----+
| 1001 | Peel  | London |
| 1004 | Motika| London |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

Q4)-Display the number of Salespeople belonging to **London** and belonging to **Paris**.

Query:

Select count(city) from SalesPeople where city ="Newyork";

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

Q5)-Display the number of orders taken by each Salesperson and their date of orders.

Query:

select Snum,Odate,count(Onum) as num\_of\_order from Orders group by Snum having num\_of\_order > 0 order by Odate;

```
mysql> select Snum,Odate,count(Onum) as num_of_order from Orders group by Snum having num_of_order > 0 order by Odate;
+-----+-----+-----+
| Snum | Odate   | num_of_order |
+-----+-----+-----+
| 1001 | 1990-10-03 |          3 |
| 1002 | 1990-10-03 |          3 |
| 1004 | 1990-10-03 |          1 |
| 1007 | 1990-10-03 |          2 |
| 1003 | 1990-10-04 |          1 |
+-----+-----+-----+
5 rows in set (0.10 sec)
```