

EXPERIMENT 9

Aim: To perform the View method in MySQL.

Software Used:

MySQL

Theory:

View Method: Views in SQL are kind of virtual tables. A view also has rows and columns as they are in a real table in the database. We can create a view by selecting fields from one or more tables present in the database. A View can either have all the rows of a table or specific rows based on certain condition.

Syntax:

CREATE VIEW view_name AS

SELECT column1, column2.....

FROM table_name

WHERE condition;

```
mysql> create table Student(sid int primary key,sname varchar(30),perc int, gender char(10),branch varchar(30));
Query OK, 0 rows affected (0.02 sec)

mysql> desc Student;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| sid   | int       | NO   | PRI | NULL    |       |
| sname | varchar(30) | YES  |     | NULL    |       |
| perc  | int       | YES  |     | NULL    |       |
| gender | char(10)  | YES  |     | NULL    |       |
| branch | varchar(30) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

```
mysql> insert into Student
-> Values(101,'hari',99,'male','CSE'),
-> (102,'ramya',90,'female','ECE'),
-> (103,'sandeep',97,'male','ECE'),
-> (104,'sonu',95,'male','CIVIL'),
-> (105,'sita',95,'female','CSE');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> select * from Student;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 101 | hari  | 99   | male   | CSE     |
| 102 | ramya | 90   | female | ECE     |
| 103 | sandeep | 97  | male   | ECE     |
| 104 | sonu  | 95   | male   | CIVIL   |
| 105 | sita  | 95   | female | CSE     |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> create view CSE_Students as
-> select * from Student where branch='CSE';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show tables
-> ;
+-----+
| Tables_in_view |
+-----+
| cse_students   |
| student        |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from CSE_Students;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 101 | hari  | 99   | male   | CSE     |
| 105 | sita  | 95   | female | CSE     |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> create view ECE_Students as
-> select * from Student where branch='ECE';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_view |
+-----+
| cse_students   |
| ece_students   |
| student        |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from ECE_Students;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 102 | ramya | 90   | female | ECE     |
| 103 | sandeep | 97   | male   | ECE     |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> create view CIVIL_Students as
-> select * from Student where branch='CIVIL';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_view |
+-----+
| civil_students |
| cse_students   |
| ece_students   |
| student        |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * from Student where branch='CIVIL';
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 104 | sonu  | 95   | male   | CIVIL  |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> update Student
-> set perc=90 where sid=104;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from Student;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 101 | hari  | 99  | male  | CSE    |
| 102 | ramya | 90  | female| ECE    |
| 103 | sandeep | 97  | male  | ECE    |
| 104 | sonu  | 90  | male  | CIVIL  |
| 105 | sita  | 95  | female| CSE    |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from CIVIL_Students;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 104 | sonu  | 90  | male  | CIVIL  |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> update CIVIL_Students
-> set perc=100 where sid=104;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from CIVIL_Students;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 104 | sonu  | 100 | male  | CIVIL  |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from Student;
+-----+-----+-----+-----+-----+
| sid | sname | perc | gender | branch |
+-----+-----+-----+-----+-----+
| 101 | hari  | 99  | male  | CSE    |
| 102 | ramya | 90  | female| ECE    |
| 103 | sandeep | 97  | male  | ECE    |
| 104 | sonu  | 100 | male  | CIVIL  |
| 105 | sita  | 95  | female| CSE    |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Conclusion: Performed the View Method in MySQL.

