CName	Sujal Sandeep Dingankar, Harsha Tanaji Surwase					
UID	2024301005, 2024301033					
Experiment No.	8					
Aim	Create view.					

Command

Creating View:

```
mysql> Create or replace view Donor_View as
-> Select id, firstname, lastname, bloodgroup
-> from Donor with check option;
Query OK, 0 rows affected (0.01 sec)
```

id	firstname	lastname	bloodgroup	
101	Sujal	Dingankar	O+	
102	Shreeya	Nemade	A+	
103	Harsha	Surwase	B+	
104	Avi	Patil	AB+	
105	Shruti	Bhuvad	A+	
106	John	Doe	0+	
107	Jane	Smith	0+	
108	Mark	Taylor	0+	
109	Lucy	Brown	A+	
110	Manu	Pandey	AB+	
111	Rakesh	Ramane	B+	

Insert data into the view:

```
mysql> Insert into Donor_View values(112,'Kiran','Nemade','A+');
Query OK, 1 row affected (0.01 sec)
mysql> Select * from Donor_View;
       firstname |
                                bloodgroup
  id
                    lastname
  101
        Sujal
                     Dingankar
                                 0+
  102
        Shreeya
                     Nemade
                                  Α+
  103
                     Surwase
        Harsha
                                 B+
  104
        Avi
                     Patil
                                 AB+
        Shruti
  105
                     Bhuvad
                                  Α+
  106
        John
                     Doe
                                 0+
  107
        Jane
                     Smith
                                 0+
  108
                                 0+
        Mark
                     Taylor
  109
        Lucy
                     Brown
                                  Α+
  110
        Manu
                     Pandey
                                 AB+
  111
        Rakesh
                     Ramane
                                 B+
  112
        Kiran
                     Nemade
                                 A+
12 rows in set (0.00 sec)
```

```
mysql> Select * from Donor;
           | firstname | lastname | conta
|loodgroup | Age | healthstatus
                                                                                       | email
    | bloodgroup | Age
                                        Dingankar
Nemade
                                                                 7798802841
7698231082
                                                                                           sujal.dingankar@spit.ac.in |
                                                                                                                                                                                              Healthy
Healthy
                                                                                          sujat.uingankarespit.ac.in
shreeya.nemade@spit.ac.in
harsha.surwase@spit.ac.in
avinash.patil@spit.ac.in
shruti.bhuvad@spit.ac.in
john.doe@exampple.com
                Shreeya
    102
                                                                                                                                                                                             Healthy
Healthy
Healthy
Healthy
Healthy
Healthy
Healthy
Healthy
                                        Surwase
Patil
Bhuvad
   103
104
               Harsha
                                                                5612798561
1234598745
                                                                                                                                                     B+
AB+
               Avi
   105
106
107
108
               Shruti
                                                                455612345
7894561230
                                                                                                                                                     A+
0+
                                                                                                                                                                                   22
25
               John
                                       Doe
Smith
                                                                                           jane.smith@example.com
mark.taylor@example.com
               Jane
Mark
                                                                7894563456
                                                                                                                                                     0+
0+
                                                                                                                                                                                   30
19
                                        Taylor
                                                                                          mark.taytorgexample.com
lucy.brown@example.com
manu.pandey@spit.ac.in
rakesh.ramane@spit.ac.in
NULL
               Lucy
Manu
                                                                7894569876
4561298742
    109
                                                                                                                                                                                    35
   110
111
112
                                        Pandev
                                                                                                                                                                                              Healthv
              Rakesh
Kiran
                                                                4531022236
                                        Nemade
                                                               NULL
                              | NULL | NULL
12 rows in set (0.00 sec)
```

Data stored in view also reflected to the primary table.

Updated the data stored in the view:

```
Update Donor_view
mysqt> opdate bonor_view
-> set Lastname = 'Artino'
-> where id = 106;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings:
mysql> Select * from Donor_View;
  id
           firstname
                           lastname
                                              bloodgroup
                            Dingankar
                                              0+
   101
           Sujal
   102
           Shreeya
                            Nemade
                                              Α+
   103
           Harsha
                                              В+
                            Surwase
   104
           Avi
                            Patil
                                              AB+
   105
           Shruti
                            Bhuvad
   106
                            Artino
                                              0+
           John
   107
                             Smith
                                              0+
           Jane
   108
           Mark
                             Taylor
                                              0+
   109
                            Brown
           Lucy
   110
           Manu
                             Pandey
                                              AB+
           Rakesh
                             Ramane
                                              B+
   112
           Kiran
                             Nemade
12
           in set (0.00 sec)
   rows
```

Deleted data from created view:

```
mysql> Delete from Donor_view where id = 112;
Query OK, 1 row affected (0.01 sec)
mysql> Select * from Donor_View;
  id
      firstname
                    lastname
                                bloodgroup
  101
        Sujal
                                  0+
                    Dingankar
  102
        Shreeya
                     Nemade
                                  Α+
  103
                                  B+
                     Surwase
        Harsha
  104
        Avi
                     Patil
                                  AB+
  105
        Shruti
                     Bhuvad
                                  A+
  106
        John
                                  0+
                     Artino
  107
        Jane
                     Smith
                                  0+
  108
                                  0+
        Mark
                     Taylor
  109
        Lucy
                     Brown
                                  A+
  110
                     Pandey
                                  AB+
        Manu
  111
        Rakesh
                     Ramane
                                  B+
11 rows in set (0.00 sec)
```

Create view using multiple tables:

mysql> Create or replace view Donor_Donne_View as

-> select a.id AS Donor_Id, a.firstname AS Donor_Firstname, a.lastname AS Donor_Lastname, a.bloodgroup AS Donor_Bloodgroup, b.id AS Donne_Id, b.first
name AS Donne_Firstname, b.lastname AS Donne_Lastname, b.bloodgroup AS Donne
_bloodgroup

-> from Donor a join Donne b on a.firstname = b.firstname
-> with check option;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from Donor_Donne_View;

| Donor_Id | Donor_Firstname | Donor_Lastname | Donor_Bloodgroup | Donne_Id | Donne_Firstname | Donne_Lastname | Donne_bloodgroup |
| 105 | Shruti | Bhuvad | A+ | 105 | Shruti | Bhuvad | O+ |
| 1 row in set (0.00 sec)

In the Multiple table based view we can not perform insert, update and delete but the changes were done in base table is reflected.

Inserting data in base table.

1. Insert into Donor Table:

```
contact, email, bloodgroup, Age, healthsta
'', 'alice.johnson@example.com', 'A+', 30,
mysql> INSERT INTO Donor (id, firstname,
-> VALUES (112, 'Alice', 'Johnson',
Query OK, 1 row affected (0.01 sec)
                                      firstname, lastname, cor
Johnson', '1234567890',
                                                                                                                        'Healthy');
mysql> Select * from Donor;
  id | firstname | lastname
                                                       l email
                                                                                              bloodgroup | Age
                                                                                                                        healthstatus
                                        contact
                         Dingankar
          Sujal
                                         7798802841
                                                          sujal.dingankar@spit.ac.in
                                                                                                                  19
21
                                                                                                                        Healthy
Healthy
  102
          Shreeya
                         Nemade
                                         7698231082
                                                          shreeya.nemade@spit.ac.in
                                                                                               Α+
                                         5612798561
                                                         harsha.surwase@spit.ac.in
          Harsha
                                                                                               B+
  103
                         Surwase
                                                         avinash.patil@spit.ac.in
shruti.bhuvad@spit.ac.in
                         Patil
                                         1234598745
                                                                                               AB+
                                                                                                                         Healthy
          Avi
                                                                                                                        Healthy
Healthy
                                         455612345
7894561230
                                                                                               A+
0+
  105
          Shruti
                         Bhuvad
  106
                         Artino
                                                          john.doe@example.com
                                                                                                                  25
30
          John
                                         7894567890
                                                          jane.smith@example.com
                                                                                               0+
          Jane
                         Smith
                                                                                                                         Healthy
  108
          Mark
                         Taylor
                                         7894563456
                                                          mark.taylor@example.com
                                                                                                                  19
                                                                                                                         Healthy
                                                                                                                        Healthy
Healthy
                                                                                                                  35
  109
          Lucy
                         Brown
                                         7894569876
                                                          lucy.brown@example.com
                                                                                               Α+
                                         4561298742
                                                                                               AB+
  110
                         Pandey
                                                         manu.pandey@spit.ac.in
                                                                                                                  26
          Manu
          Rakesh
                                         4531022236
                                                          rakesh.ramane@spit.ac.in
                                                                                                                         Healthy
                         Ramane
          Alice
                         Johnson
                                         1234567890
                                                          alice.johnson@example.com
                                                                                                                         Healthy
   rows in set (0.00 sec)
```

Insert into Donne Table:

```
mysql> INSERT INTO Donne (id, firstname, lastna
-> VALUES (112, 'Alice', 'Williams', 'O+');
Query OK, 1 row affected (0.01 sec)
 ysql> Select * from Donne;
           | firstname
                                                                                                                                                             bloodgroup | healthstatus | request_id | request_date
                                       lastname contact
                                                                                            email
              Shubham
Sanjay
Harshvardan
Soham
Shruti
Alice
                                           Bhuvad
Kadam
Nemade
Bhojane
Bhuvad
Williams
                                                                                                                                                            A+
AB+
O+
A+
O+
O+
                                                                 7798521123
4568912345
777894561
564781234
                                                                                            shubham.bhuvad@spit.ac.in
sanjay.bhuvad@spit.ac.in
harshavardan.nemade@spit.ac.in
soham.bhojane@spit.ac.in
                                                                                                                                                                                                                                                 2024-10-05
2024-10-06
2024-10-14
                                                                                                                                                                                                                      R001
R002
R003
R004
                                                                                                                                                                                                                                                 2024-10-20
2024-10-25
                                                                 7798802841
NULL
                                                                                            sujal.dingankar@spit.ac.in
NULL
                                                                                                                                                                                         Health
   rows in set (0.00 sec)
```

3. After inserting records in both tables, you can confirm that the data reflects correctly in the Donor_Donne_View view:

mysql> select * from Donor_Donne_View;									
Donor_Id	Donor_Firstname	Donor_Lastname	Donor_Bloodgroup	Donne_Id	Donne_Firstname	Donne_Lastname	Donne_bloodgroup		
	Shruti Alice		A+ A+		Shruti Alice		0+ 0+		
2 rows in set (0.00 sec)									

Conclusion

From this experiment, I have learned about creating view and perform operations on it in MySQL & also implemented them.