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UID	2024301005, 2024301033
Experiment No.	8
Aim	Create view.
Command	<div>Creating View:</div> <div>mysql&gt; Create or replace view Donor_View as -&gt; Select id, firstname, lastname, bloodgroup -&gt; from Donor with check option; Query OK, 0 rows affected (0.01 sec)</div> <div>mysql&gt; Select * from Donor_View; +-----+-----+-----+-----+   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   O+     107   Jane   Smith   O+     108   Mark   Taylor   O+     109   Lucy   Brown   A+     110   Manu   Pandey   AB+     111   Rakesh   Ramane   B+   +-----+-----+-----+-----+ 11 rows in set (0.00 sec)</div> <div>Insert data into the view:</div> <div>mysql&gt; Insert into Donor_View values(112,'Kiran','Nemade','A+'); Query OK, 1 row affected (0.01 sec)</div> <div>mysql&gt; Select * from Donor_View; +-----+-----+-----+-----+   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   O+     107   Jane   Smith   O+     108   Mark   Taylor   O+     109   Lucy   Brown   A+     110   Manu   Pandey   AB+     111   Rakesh   Ramane   B+     112   Kiran   Nemade   A+   +-----+-----+-----+-----+ 12 rows in set (0.00 sec)</div>

```
mysql> Select * from Donor;
```

id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus
101	Sujal	Dingankar	7798802841	sujal.dingankar@spit.ac.in	O+	20	Healthy
102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy
103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy
104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy
105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy
106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy
107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy
108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy
109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
110	Manu	Pandey	4561298742	manu.pandey@spit.ac.in	AB+	26	Healthy
111	Rakesh	Ramane	4531022236	rakesh.ramane@spit.ac.in	B+	40	Healthy
112	Kiran	Nemade	NULL	NULL			
A+		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:

```
mysql> Update Donor_view
-> set Lastname = 'Artino'
-> where id = 106;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> Select * from Donor_View;
```

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	Artino	O+
107	Jane	Smith	O+
108	Mark	Taylor	O+
109	Lucy	Brown	A+
110	Manu	Pandey	AB+
111	Rakesh	Ramane	B+
112	Kiran	Nemade	A+

```
12 rows in set (0.00 sec)
```

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	Dingankar	O+
102	Shreeya	Nemade	A+
103	Harsha	Surwase	B+
104	Avi	Patil	AB+
105	Shruti	Bhuvad	A+
106	John	Artino	O+
107	Jane	Smith	O+
108	Mark	Taylor	O+
109	Lucy	Brown	A+
110	Manu	Pandey	AB+
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.firstname 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:

```
mysql> INSERT INTO Donor (id, firstname, lastname, contact, email, bloodgroup, Age, healthstatus)
-> VALUES (112, 'Alice', 'Johnson', '1234567890', 'alice.johnson@example.com', 'A+', 30, 'Healthy');
Query OK, 1 row affected (0.01 sec)

mysql> Select * from Donor;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | firstname | lastname | contact | email | bloodgroup | Age | healthstatus |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Sujal | Dingankar | 7798802841 | sujal.dingankar@spit.ac.in | O+ | 20 | Healthy |
| 102 | Shreeya | Nemade | 7698231082 | shreeya.nemade@spit.ac.in | A+ | 19 | Healthy |
| 103 | Harsha | Surwase | 5612798561 | harsha.surwase@spit.ac.in | B+ | 21 | Healthy |
| 104 | Avi | Patil | 1234598745 | avinash.patil@spit.ac.in | AB+ | 18 | Healthy |
| 105 | Shruti | Bhuvad | 455612345 | shruti.bhuvad@spit.ac.in | A+ | 22 | Healthy |
| 106 | John | Artino | 7894561230 | john.doe@example.com | O+ | 25 | Healthy |
| 107 | Jane | Smith | 7894567890 | jane.smith@example.com | O+ | 30 | Healthy |
| 108 | Mark | Taylor | 7894563456 | mark.taylor@example.com | O+ | 19 | Healthy |
| 109 | Lucy | Brown | 7894569876 | lucy.brown@example.com | A+ | 35 | Healthy |
| 110 | Manu | Pandey | 4561298742 | manu.pandey@spit.ac.in | AB+ | 26 | Healthy |
| 111 | Rakesh | Ramane | 4531022236 | rakesh.ramane@spit.ac.in | B+ | 40 | Healthy |
| 112 | Alice | Johnson | 1234567890 | alice.johnson@example.com | A+ | 30 | Healthy |
+-----+-----+-----+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)
```

### 2. Insert into Donne Table:

```
mysql> INSERT INTO Donne (id, firstname, lastname, bloodgroup)
-> VALUES (112, 'Alice', 'Williams', 'O+');
Query OK, 1 row affected (0.01 sec)

mysql> Select * from Donne;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | firstname | lastname | contact | email | bloodgroup | healthstatus | request_id | request_date |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Shubham | Bhuvad | 7798521123 | shubham.bhuvad@spit.ac.in | A+ | Healthy | R001 | 2024-10-05 |
| 102 | Sanjay | Kadam | 4568912345 | sanjay.bhuvad@spit.ac.in | AB+ | Healthy | R002 | 2024-10-06 |
| 103 | Harshvardan | Nemade | 777894561 | harshavardan.nemade@spit.ac.in | O+ | Healthy | R003 | 2024-10-14 |
| 104 | Soham | Bhojane | 564781234 | soham.bhojane@spit.ac.in | A+ | Healthy | R004 | 2024-10-20 |
| 105 | Shruti | Bhuvad | 7798802841 | sujal.dingankar@spit.ac.in | O+ | Healthy | R005 | 2024-10-25 |
| 112 | Alice | Williams | NULL | NULL | O+ | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 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 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 105 | Shruti | Bhuvad | A+ | 105 | Shruti | Bhuvad | O+ |
| 112 | Alice | Johnson | A+ | 112 | Alice | Williams | O+ |
+-----+-----+-----+-----+-----+-----+-----+-----+
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.