

**Course Name: DBMS Lab** 

**Course Code: CSEG2146** 

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## **Experiment 9:**

Title: To understand the concepts of Views.

**Objective:** Students will be able to implement the concept of views.

1. Create table of table name: EMPLOYEES and add 6 rows

```
mysql> INSERT INTO EMPLOYESS (Employee_id, First_Name, Last_Name, DOB, SALARY, Department_id) VALUES
    -> ('EMP001', 'Alice', 'Johnson', '1990-01-01', 50000, 'D10'),
    -> ('EMP002', 'Bob', 'Smith', '1992-03-15', 60000, 'D20'),
    -> ('EMP003', 'Charlie', 'Brown', '1991-07-20', 55000, 'D10'),
    -> ('EMP004', 'David', 'Lee', '1993-11-10', 48000, 'D20'),
    -> ('EMP005', 'Emily', 'Davis', '1994-05-25', 52000, 'D10'),
    -> ('EMP006', 'Frank', 'Miller', '1995-09-05', 58000, 'D20');
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

## 2. Execute the following view related queries:

1. Create View of name emp\_view and the column would be Employee\_id, Last\_Name, salary and department\_id only.

```
mysql> CREATE VIEW emp_view AS
    -> SELECT Employee_id, Last_Name, Salary, Department_id
    -> FROM EMPLOYESS;
Query OK, 0 rows affected (0.02 sec)
```

2. Insert values into view(remove the NOT NULL constraint and then insert values):

```
mysql> ALTER TABLE EMPLOYESS MODIFY Last_Name CHAR(30);
Query OK, 0 rows affected (0.19 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> ALTER TABLE EMPLOYESS MODIFY Salary DECIMAL(15,2);
Query OK, 6 rows affected (0.10 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE EMPLOYESS MODIFY First_Name CHAR(30) DEFAULT
NULL;
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE EMPLOYESS MODIFY Last_Name CHAR(30) DEFAULT
NULL;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE EMPLOYESS MODIFY Salary DECIMAL(15,2) DEFAUL
T 0;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> INSERT INTO emp_view(Employee_id, Last_Name, Salary, Dep artment_id) VALUES ('E007','Singh',60000,'D11');
Query OK, 1 row affected (0.01 sec)
```

3. Modify, delete and drop operations are performed on view.

4. Creates a view named salary view. The view shows the employees in department 20 and their annual salary.

```
mysql> CREATE VIEW salary_view AS
-> SELECT Employee_id, Last_Name, Salary * 12 AS Annual_Salary FROM EMPLOYESS WHERE Department_id='D20';
Query OK, 0 rows affected (0.03 sec)
```