EXPERIMENT-7

Aim: To Practice View Command.

Software Used: MySQL

Theory:

In SQL, a view is a virtual table based on the result-set of an SQL statement.

A view contains rows and columns, just like a real table. The fields in a view are present from one or more real tables in the database.

To demonstrate VIEW command, we use the following tables:

EMPLOYEE TABLE:

CREATE TABLE EMP(EID INT NOT NULL PRIMARY KEY, FIRSTNAME VARCHAR(255) NOT NULL, LASTNAME VARCHAR(255), SALARY INT);

Figure: Employee Table

CREATE TABLE DEPT(DEPT_ID INT NOT NULL PRIMARY KEY, DEPT_NAME VARCHAR(255) NOT NULL, EID INT)

Figure: Department Table

INSERT INTO EMP(EID,FIRSTNAME,LASTNAME,SALARY)
VALUES(1,"TUSHAR","BHATIA",100000),(2,"ASHISH","GUPTA",2000000),
(3,"DHRUV","VARSHNEY",300000),(4,"SID","JO",400000),(5,"SHREYAS","OM",5000000)

Figure: Query to insert values into Employee Table

EID	FIRSTNAME	LASTNAME	SALARY
1	TUSHAR	BHATIA	100000
2	ASHISH	GUPTA	200000
3	DHRUV	VARSHNEY	300000
4	SID	JO	400000
5	SHREYAS	ОМ	500000

Figure: Result Table

DEPARTMENT TABLE:

INSERT INTO DEPT(DEPT_ID,DEPT_NAME,EID) VALUES(10,"HR",1),(20,"Finance",2),
(30,"Accounts",3),(40,"Physics",4),(50,"Software",5)

Figure: Insert into Department Table

DEPT_ID	DEPT_NAME	EID
10	HR	1
20	Finance	2
30	Accounts	3
40	Physics	4
50	Software	5

Figure: Result Table

CREATING VIEW:

From a Single Table:

CREATE VIEW details AS

SELECT EID, FIRSTNAME

FROM emp

WHERE Salary >= '200000';

Figure: Creating View Table

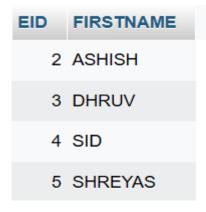


Figure: Result table

From Multiple Tables:

```
CREATE VIEW details2 AS

SELECT emp.FIRSTNAME, emp.SALARY, Dept.DEPT_NAME

FROM emp, dept

WHERE emp.EID = dept.EID;
```

Figure: Creating View Table

FIRSTNAME	SALARY	DEPT_NAME
TUSHAR	100000	HR
ASHISH	200000	Finance
DHRUV	300000	Accounts
SID	400000	Physics
SHREYAS	500000	Software

Figure: Result table

Updating a View:

```
CREATE OR REPLACE VIEW details AS

SELECT emp.FIRSTNAME, emp.Salary, dept.DEPT_NAME, dept.DEPT_ID

FROM emp, dept

WHERE emp.EID = dept.EID;
```

Figure: Updating View Table

FIRSTNAME	Salary	DEPT_NAME	DEPT_ID
TUSHAR	100000	HR	10
ASHISH	200000	Finance	20
DHRUV	300000	Accounts	30
SID	400000	Physics	40
SHREYAS	500000	Software	50

Figure: Result table

Deleting a View:

DROP VIEW details2;

Figure: Drop View Table

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0013 seconds.)

DROP VIEW details2;

Figure: Result Query

Conclusion: Various forms of view were performed and demonstrated.