Advance Database Management Systems Lab

Experiment- 6

To understand the concepts of Views

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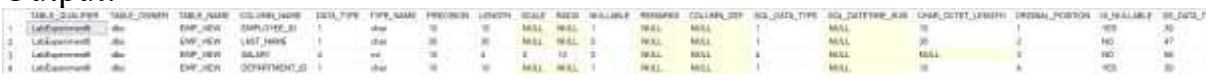
Batch- 2


```
CREATE DATABASE LabExperiment6;

USE LabExperiment6;

CREATE TABLE EMPLOYEES( Employee_id VARCHAR(10) NOT NULL
PRIMARY KEY, First_Name VARCHAR(30) NOT NULL, Last_Name
VARCHAR(30) NOT NULL, DOB Date, salary DECIMAL(25,0) NOT NULL,
Department_id VARCHAR(10) );

--1 Create View of name emp_view and the column would be Employee_id,
Last_Name, salary and department_id only.
CREATE VIEW emp_view(Employee_id, Last_Name, salary, Department_id)
AS SELECT Employee_id, Last_Name, salary, Department_id FROM
EMPLOYEES;

exec sp_columns emp_view
```

Output:



```
--2) Insert values into view(remove the NOT NULL constraint and then insert
values)

ALTER TABLE EMPLOYEES ALTER COLUMN First_Name varchar(30)
null;

INSERT INTO emp_view VALUES('EMP000111', 'JAIN', 50000,
'INFORMATIC');

SELECT * FROM EMPLOYEES;
```

```
INSERT INTO emp_view VALUES ('EMP000112', 'Joyce', 25000, 'ECE');
INSERT INTO emp_view VALUES ('EMP000113', 'Ramesh',38000, 'ME');
INSERT INTO emp_view VALUES ('EMP000114', 'James', 55000, 'CIVIL');
INSERT INTO emp_view VALUES('EMP000115','Jennifer',65555, 'IT');

SELECT * FROM EMPLOYEES;

SELECT * FROM emp_view;
```

Output:

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DOB	SALARY	DEPARTMENT_ID
1	EMP000111	NULL	JAIN	NULL	50000	INFORMATIC

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DOB	SALARY	DEPARTMENT_ID
1	EMP000111	NULL	JAIN	NULL	50000	INFORMATIC
2	EMP000112	NULL	Joyce	NULL	25000	ECE
3	EMP000113	NULL	Ramesh	NULL	38000	ME
4	EMP000114	NULL	James	NULL	55000	CIVIL
5	EMP000115	NULL	Jennifer	NULL	65555	IT

	EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID
1	EMP000111	JAIN	50000	INFORMATIC
2	EMP000112	Joyce	25000	ECE
3	EMP000113	Ramesh	38000	ME
4	EMP000114	James	55000	CIVIL
5	EMP000115	Jennifer	65555	IT

```
--3) Modify, delete and drop operations are performed on view.
--UPDATE
update emp_view set salary=60000 where Employee_id='EMP000113';

DELETE FROM emp_view WHERE Last_Name='Joyce';

SELECT * FROM emp_view;

CREATE VIEW ADBMS(L_Name, salary) AS SELECT Last_Name, salary
FROM EMPLOYEES;

SELECT * FROM ADBMS;

DROP VIEW ADBMS;
```

Output:

	EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID
1	EMP000111	JAIN	50000	INFORMATIC
2	EMP000113	Ramesh	60000	ME
3	EMP000114	James	55000	CIVIL
4	EMP000115	Jennifer	65555	IT

	L_Name	salary
1	JAIN	50000
2	Ramesh	60000
3	James	55000
4	Jennifer	65555

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

```
SELECT * FROM emp_view;
INSERT INTO emp_view VALUES('EMP000116','GUPTA',80000, '20');

CREATE VIEW salary_viewB1 AS SELECT Employee_id, Last_Name, salary
FROM EMPLOYEES WHERE Department_id='20';

SELECT * FROM salary_viewB1;
```

Output:

	EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID
1	EMP000111	JAIN	50000	INFORMATIC
2	EMP000113	Ramesh	60000	ME
3	EMP000114	James	55000	CIVIL
4	EMP000115	Jennifer	65555	IT

	Employee_id	Last_Name	salary
1	EMP000116	GUPTA	80000