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EXPERIMENT NO:- 06

OBJECTIVE: To understand the concepts of Views.

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

Column Name	Data Type	Width	Attributes
Employee_id	Character	10	PK
First_Name	Character	30	NN
Last_Name	Character	30	NN
DOB	Date		
Salary	Number	25	NN
Department_id	Character	10	

```
SQL> CREATE TABLE EMPLOYEES(
  2  EMPLOYEE_ID VARCHAR(10) PRIMARY KEY,
  3  FIRST_NAME VARCHAR(30) NOT NULL,
  4  LAST_NAME VARCHAR(30) NOT NULL,
  5  DOB DATE,
  6  SALARY NUMBER(25) NOT NULL,
  7  DEPARTMENT_ID VARCHAR(10));

Table created.
```

```
SQL> DESCRIBE EMPLOYEES;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 EMPLOYEE_ID                               NOT NULL VARCHAR2(10)
 FIRST_NAME                                NOT NULL VARCHAR2(30)
 LAST_NAME                                 NOT NULL VARCHAR2(30)
 DOB                                                DATE
 SALARY                                    NOT NULL NUMBER(25)
 DEPARTMENT_ID                                      VARCHAR2(10)

SQL>
```

2. Execute the following view related queries:

A. Create View of name emp_view and the column would be Employee_id, Last_Name, salary and department_id only.

```
SQL> CREATE VIEW EMP_VIEW AS SELECT EMPLOYEE_ID,LAST_NAME,SALARY,DEPARTMENT_ID F
ROM EMPLOYEES;

View created.

SQL>
```

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

```
SQL> insert into emp2_v (eid, ename, salary, dno) values ('E001', 'Rajan', 23000, 'D004');
insert into emp2_v (eid, ename, salary, dno) values ('E001', 'Rajan', 23000, 'D004')
                                                     *

ERROR at line 1:
ORA-01722: invalid number


SQL> insert into emp2_v (eid, ename, salary, dno) values (1001, 'Rajan', 23000, 'D004');

1 row created.

SQL> insert into emp2_v (eid, ename, salary, dno) values (1002, 'Twinkle', 21000, 'D001');

1 row created.

SQL> insert into emp2_v (eid, ename, salary, dno) values (1003, 'Glen', 25000, 'C001');

1 row created.
```

```
SQL> select * from emp2_v;

       EID ENAME         SALARY DNO
---------- ---------- ---------- -----
      1001 Rajan          23000 D004
      1002 Twinkle        21000 D001
      1003 Glen           25000 C001
```

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

```
SQL> DROP VIEW EMP_VIEW;

View dropped.

SQL>
```

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

```
SQL> select eid, ename, 20*salary from emp2_v;

       EID ENAME      20*SALARY
---------- ---------- ----------
      1001 Rajan          460000
      1002 Twinkle        420000
      1003 Glen           500000
```