**EXPERIMENT-6**

**AIM**:- To create and manipulate various database objects of the Table using views

**FACILITIES REQUIRED:**

|  |  |  |
| --- | --- | --- |
| **Serial No.** | **Facilities required** | **Quantity** |
| 1 | System | 1 |
| 2 | Operating System | Windows |
| 3 | Front End |  |
| 4 | Backend | Oracle Apex |

**PROCEDURE**:

|  |  |
| --- | --- |
| **Step no.** | **Details of the step** |
| 1 | **Views:**  A view is the tailored presentation of data contained in one or more table and can also be said as restricted view to the data’s in the tables. A view is a “virtual table” or a “stored query” which takes the output of a query and treats it as a table. The table upon which a view is created is called as base table. |
| 2 | A view is a logical table based on a table or another view. A view contains no data of its own but is like a window through which data from tables can be viewed or changed. The tables on which a view is based are called base tables. The view is stored as a SELECT statement in the data dictionary |
| 3 | **Advantages of a view:**  a. Additional level of table security.  b. Hides data complexity.  c. Simplifies the usage by combining multiple tables into a single table.  d. Provides data’s in different perspective |
| 4 | **Types of view:**  Horizontal -> enforced by where cause  Vertical -> enforced by selecting the required columns |

**SQL COMMANDS**

**Creating and dropping view:**

**Syntax:** Create [or replace] view [column alias names] as [with conditions];

Drop view ;

**Example:** Create or replace view empview as select \* from emp;

Drop view empview;

**Queries:**

**Q1: The organization wants to display only the details of the employees those who are ASP. (Horizontal portioning)**

**Ans:** SQL> create view empview as select \* from emp\_disha\_171 where job='ASP';

View created.

SQL> select \* from empview;

**Q2: The organization wants to display only the details like empno, empname, deptno, deptname of the employees. (Vertical portioning)**

**Ans:** SQL> create view empview1 as select ename,sal from emp;

View created.

SQL> select\* from empview1

**Q3: Display all the views generated.**

**Ans:** SQL> select \* from tab;

**Q4: Execute the DML commands on the view created.**

**Ans:** SQL> select \* from empview;

**Q5: Drop a view.**

**Ans:** SQL> drop view empview1;