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**Exercise Number: 6**


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**Title of the Exercise : VIEWS****Date of the Exercise :****OBJECTIVE (AIM) OF THE EXPERIMENT**

To create and manipulate various database objects of the Table using views

**FACILITIES REQUIRED AND PROCEDURE****a) Facilities required to do the experiment:**

Sl.No.	Facilities required	Quantity
1	System	1
2	Operating System	Windows
3	Front end	
4	Back end	Oracle11g

**b) Procedure for doing the experiment:**

Step no.	Details of the step
1	<b>Views:</b> 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	<b>Advantages of a view:</b> 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	<b>Types of view:</b> Horizontal -> enforced by where clause Vertical -> enforced by selecting the required columns

**c) SQL Commands****Creating and dropping view:****Syntax:**

Create [or replace] view &lt;view name&gt; [column alias names] as &lt;query&gt; [with &lt;options&gt; conditions];

Drop view &lt;view name&gt;;

**Example:**

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

Drop view empview;

**d) Queries:****Tables used:**

SQL&gt; select \* from emp;

EMPNO	ENAME	JOB	DEPTNO	SAL
1	Mathi	AP	1	10000
2	Arjun	ASP	2	12000
3	Gugan	ASP	2	20000
4	Karthik	AP	1	15000

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

Solution:

1. Create a view on emp table named managers
2. Use select from clause to do horizontal partitioning

**Ans:**

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

View created.

SQL> select \* from empview;

EMPNO	ENAME	JOB	DEPTNO	SAL
2	Arjun	ASP	2	12000
3	Gugan	ASP	2	20000

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

Solution:

1. Create a view on emp table named general
2. Use select from clause to do vertical partitioning

**Ans:**

SQL> create view empview1 as select empno, empname, deptno, deptname from emp;

View created.

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

**Ans:**

SQL> select \* from tab;

TNAME	TABTYPE	CLUSTERID
DEPT	TABLE	
EMP	TABLE	
EMPVIEW	VIEW	
EMPVIEW1	VIEW	

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

**Ans:**

SQL> select \* from empview;

EMPNO	ENAME	JOB	DEPTNO	SAL
2	Arjun	ASP	2	12000
3	Gugan	ASP	2	20000

**Q5: Drop a view.**

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

View dropped.

**e) Result:**

Thus the creation and manipulate various database objects of the Table using views was successfully executed.

## QUESTIONS AND ANSWERS

**1. What is a view?**

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.

**2. List any two advantages of view?**

1. Hides data complexity.
2. Simplifies the usage by combining multiple tables into a single table.