
Practical Number: 10

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

PROCEDURE

a) Procedure for doing the experiment:

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 clause Vertical -> enforced by selecting the required columns

a) SQL Commands

Creating and dropping view:

Syntax:

Create [or replace] view <view name> [column alias names] as <query> [with

<options> conditions]; Drop view <view name>;

Example:

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

b) Queries: Tables used:

SQL> select * from emp;

EMPNO ENAMEJOB 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 portioning

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 portioning

Ans:

SQL> create view empview1 as select ename,sal 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 ENAMEJOB DEPTNO SAL

2	Arjun	ASP	2	12000
3	Gugan	ASP	2	20000

Q5: Drop a view.

Ans: SQL> drop view empview1; View dropped.

c) Result:

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

Consider the following tables:

EMPLOYEE(Emp_id, EMP_name,Job_name,Manager_id,Hire_date,Salary,Deptno)

DEPARTMENT(Deptno, Dname, MGRSSN)

PROJECT(Pname,Pno,Plocation,Deptno)

emp_id | emp_name | job_name | manager_id | hire_date | salary | E_Bonus | dep_no

68319	KAYLING	PRESIDENT		1991-11-18	6000.00	300.00	1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	200.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	200.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	200.00	2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	250.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	250.00	2001
63679	SANDRINE	CLERK	69062	1990-12-18	900.00	150.00	2001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	180.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	180.00	3001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	180.00	3001
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	180.00	3001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00	150.00	2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00	150.00	3001
69324	MARKER	CLERK	67832	1992-01-23	1400.00	150.00	1001

Department Table

deptno	dname	Citylocation	dCountry
1001	Accounting	New York	United States of America,
2001	Research	Dallas	United States
3001	Sales	Chicago	United States of America
4001	Marketing	Los Angeles	United States

Project Table

Pno	Pname	PCitylocation	PCountry
111	P_1	New York	United States of America,
112	P_2	Dallas	United States
113	P_3	Chicago	United States of America
114	P_4	Denmark	northern Europe
115	P_5	Paris	France
116	P_6	Chicago	United States of America

Write a query for the following:-Queries

Q1. Display the details of employees containing **emp_id, emp_name , job_name , manager_id , hire_date , salary** and include only those employees who work as salesman.

Q2. Create a separate table for department having country as United states.

Q3. The details of employees is needed for extracting the employees having salary more than 10,000.Provide the details.

Q4. The project details are required for some purpose. Provide the data about the project location.

Q5. Drop the views on departments.