

Ex.No.: 5	CREATING VIEWS
Date: 13/8/24	

After the completion of this exercise, students will be able to do the following:

- Describe a view
- Create, alter the definition of, and drop a view
- Retrieve data through a view
- Insert, update, and delete data through a view
- Create and use an inline view

### View

A view is a logical table based on a table or another view. A view contains no data 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.

### Advantages of Views

- To restrict data access
- To make complex queries easy
- To provide data independence
- To present different views of the same data

### Classification of views

1. Simple view
2. Complex view

Feature	Simple	Complex
No. of tables	One	One or more
Contains functions	No	Yes
Contains groups of data	No	Yes
DML operations thr' view	Yes	Not always

### Creating a view

### Syntax



Use of WITH READ ONLY option.

Any attempt to perform a DML on any row in the view results in an oracle server error.

Try this code:

```
CREATE OR REPLACE VIEW empvu10(employee_number, employee_name, job_title)
AS SELECT employee_id, last_name, job_id
FROM employees
WHERE department_id=10
WITH READ ONLY;
```

Find the Solution for the following:

1. Create a view called EMPLOYEE\_VU based on the employee numbers, employee names and department numbers from the EMPLOYEES table. Change the heading for the employee name to EMPLOYEE.

Create view employee\_vu as select employee\_id, last\_name  
as employee, department\_id from employees;

2. Display the contents of the EMPLOYEES\_VU view.

Select \* from employee\_vu;

3. Select the view name and text from the USER\_VIEWS data dictionary views.

Select view\_name, text from USER\_VIEWS where view\_name =  
'Employee\_VU';

4. Using your EMPLOYEES\_VU view, enter a query to display all employees names and department.

Select employee, department\_id from employee\_vu;



5. Create a view named DEPT50 that contains the employee number, employee last names and department numbers for all employees in department 50. Label the view columns EMPNO, EMPLOYEE and DEPTNO. Do not allow an employee to be reassigned to another department through the view.

Create view DEPT50 as select employee-id as EMPNO, last-name as DEPTNO from EMPLOYEES where department-id=50 with check option;

6. Display the structure and contents of the DEPT50 view.

Describe DEPT 50;

Select \* from DEPT 50;

7. Attempt to reassign Matos to department 80.

Update DEPT 50 SET DEPTNO=80 WHERE Employee = 'Matos';

8. Create a view called SALARY\_VU based on the employee last names, department names, salaries, and salary grades for all employees. Use the EMPLOYEES, DEPARTMENTS and JOB\_GRADE tables. Label the column Employee, Department, salary, and Grade respectively.

Create view salary-VU as select (last-name, department-name, salary, salary grade) as select employee last-name, Department name, job grade, salaries from employees, department, job grade);

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	