

Ex. No:5
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CREATING VIEWS

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 AS EMPNO, first_name || ' ' || last_name AS EMPLOYEE,  
department_id AS DEPTNO  
FROM EMPLOYEES ;
```

2. Display the contents of the EMPLOYEES_VU view.

```
SELECT * FROM EMPLOYEE_VU;
```

| Results | Explain | Describe | Saved SQL | History |
|---------|----------------|----------|-----------|---------|
| EMPNO | EMPLOYEE | DEPTNO | | |
| 1 | John Doe | 30 | | |
| 2 | Jane Smith | 20 | | |
| 3 | Matos Brown | 50 | | |
| 4 | Emily Davis | 40 | | |
| 5 | Michael Wilson | 10 | | |

5 rows returned in 0.01 seconds [Download](#)

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';
```

| VIEW_NAME | TEXT |
|-------------|---|
| EMPLOYEE_VU | SELECT employee_id AS EMPNO, first_name ' ' last_name AS EMPLOYEE, department_id AS DEPTNO FROM EMPLOYEES |

1 rows returned in 0.03 seconds [Download](#)

- ```
SELECT EMPLOYEE, DEPTNO
FROM EMPLOYEE_VU;
```

5 rows returned in 0.00 seconds

- ```
CREATE VIEW DEPT50 AS
SELECT employee_id AS EMPNO, last_name AS EMPLOYEE, department_id AS
DEPTNO
FROM EMPLOYEES
WHERE department_id = 50
WITH CHECK OPTION;
```

- DESC DEPT50;

1-3

7. 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 e.last_name AS Employee, d.department_name AS Department, e.salary
AS Salary, (SELECT grade FROM JOB_GRADES WHERE e.salary BETWEEN
low_salary AND high_salary) AS Grade
FROM EMPLOYEES e
JOIN DEPARTMENTS d ON e.department_id = d.department_id;
```

```
CREATE VIEW SALARY_VU (Employee, Department, Salary, Grade) AS
SELECT emp_last_name AS Employee, dept_name AS Department, salary AS Salary, grade AS Grade
FROM employee;
```

| | | | | |
|----------------|---------|----------|-----------|---------|
| Results | Explain | Describe | Saved SQL | History |
|----------------|---------|----------|-----------|---------|

View created.