

Ex.No.: 5		CREATING VIEWS
Date:	14/8/24	

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 OR REPLACE VIEW EMPLOYEE_VU(EMP_ID,EMP_NAME,DEPT_ID)AS SELECT
EMPLOYEE_ID,FIRST_NAME,DEPARTMENT_ID FROM EMPLOYEES;
```

View created.

2. Display the contents of the EMPLOYEES_VU view.

```
SELECT * FROM EMPLOYEE_VU;
```

EMP_ID	EMP_NAME	DEPT_ID
101	John	60
102	Betty	60
103	Ralph	70
104	Chad	80
105	Audrey	60
106	Alice	50

3. Select the view name and text from the USER_VIEWS data dictionary views.

```
SELECT VIEW_NAME, TEXT FROM USER_VIEWS;
```

VIEW_NAME	TEXT
EMPLOYEE_VU	SELECT EMPLOYEE_ID,FIRST_NAME,DEPARTMENT_ID FROM EMPLOYEES

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

```
SELECT EMP_NAME, DEPT_ID FROM EMPLOYEE_VU;
```

EMP_NAME	DEPT_ID
John	60
Betty	60
Ralph	70
Chad	80
Audrey	60
Alice	50

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 OR REPLACE VIEW DEPT50 (EMPNO, EMPLOYEE, DEPTNO) AS SELECT EMPLOYEE_ID,
LAST_NAME, DEPARTMENT_ID FROM EMPLOYEES WHERE DEPARTMENT_ID = 50 WITH
READ ONLY;
```

EMPNO	EMPLOYEE	DEPTNO
106	Brown	50

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

```
DESCRIBE DEPT50;
```

Object Type **VIEW** Object **DEPT50**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>DEPT50</u>	<u>EMPNO</u>	NUMBER	-	6	0	-	-	-	-
	<u>EMPLOYEE</u>	VARCHAR2	25	-	-	-	-	-	-
	<u>DEPTNO</u>	NUMBER	-	4	0	-	✓	-	-
1 - 3									

```
SELECT * FROM DEPT50;
```

EMPNO	EMPLOYEE	DEPTNO
106	Brown	50

7. Attempt to reassign Matos to department 80.

```
UPDATE DEPT50 SET DEPTNO = 80 WHERE EMPLOYEE = 'Matos';
```

ORA-42399: cannot perform a DML operation on a read-only view

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 OR REPLACE VIEW SALARY_VU (Employee, Department, Salary, Grade) AS SELECT
E.LAST_NAME AS Employee, D.DEPT_NAME AS Department, E.SALARY AS Salary,
J.GRADE_LEVEL AS Grade FROM EMPLOYEES E JOIN DEPARTMENTS D ON E.DEPARTMENT_ID
= D.DEPT_ID JOIN JOB_GRADE J ON E.SALARY BETWEEN J.LOWEST_SAL AND J.HIGHEST_SAL;
```

View created.

Object Type **VIEW** Object **SALARY_VU**

[illegible]