EX NO: 5 **CREATING VIEWS**

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 table EMPLOYEE
(
EMPLOYEE_NAME VARCHAR(25),
EMPLOYEE_ID NUMBER,
DEPARTMENT_ID NUMBER,
DEPARTMENT_NAME VARCHAR(25)
);
```

```
INSERT INTO EMPLOYEE VALUES ('JOHN',1,50,'TESTER');

INSERT INTO EMPLOYEE VALUES ('JANE',2 ,30,'ANALYST');

INSERT INTO EMPLOYEE VALUES ('MATOS',3,70,'DESIGNER');

INSERT INTO EMPLOYEE VALUES ('EMILY',4,90,'SOFTWARE');

INSERT INTO EMPLOYEE VALUES ('WITSON',5,55,'DESIGNER');
```

```
CREATE VIEW EMPLOYEE_VU AS SELECT EMPLOYEE_ID, EMPLOYEE_NAME AS EMPLOYEE,DEPARTMENT_ID FROM EMPLOYEE;
```

2.Display the contents of the EMPLOYEES_VU view.

```
SELECT * from EMPLOYEE_VU;
```

EMPLOYEE_ID	EMPLOYEE	DEPARTMENT_ID
1	JOHN	50
2	JANE	30
3	MATOS	70
4	EMILY	90
5	WITSON	55

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, EMPLOYEE_NAME AS EMPLOYEE,DEPARTMENT_ID FROM EMPLOYEE

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

SELECT EMPLOYEE,DEPARTMENT_ID FROM EMPLOYEE_VU;

EMPLOYEE	DEPARTMENT_ID
JOHN	50
JANE	30
MATOS	70
EMILY	90
WITSON	55

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 departmentthrough the view.

CREATE VIEW DEPT50 AS SELECT EMPLOYEE_ID AS EMPNO,EMPLOYEE_NAME AS EMPLOYEE,DEPARTMENT_ID AS DEPT_NO FROM EMPLOYEE WHERE DEPARTMENT_ID=50;

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

DESC DEPT50;

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

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT50	EMPNO	NUMBER	22	-	-	-	✓	-	-
	EMPLOYEE	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_NO	NUMBER	22	-	-	-	✓	-	-
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SELECT * from DEPT50;

EMPNO	EMPLOYEE	DEPT_NO
1	JOHN	50

7.Attempt to reassign MATOS to department 80.

UPDATE EMPLOYEE_VU set DEPARTMENT_ID =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 andJOB_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;
```