231901036 Prem Roshan P

# EXPNO:05 DATE:28.08.2024

### **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	e Saved SO	QL History
EMPNO	EMPLOYEE	DEPTNO	
1	John Doe	30	
2	Jane Smith	20	
3	Matos Brown	50	
4	Emily Davis	40	
5	Michael Wilson	10	
rows ref	turned in 0.01 seco	onds Do	wnload

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, DEPTNO FROM EMPLOYEE\_VU;

EMPLOYEE	DEPTNO
John Doe	30
Jane Smith	20
Matos Brown	50
Emily Davis	40
Michael Wilson	10

5 rows returned in 0.00 seconds

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 EMPLOYEE, department\_id AS DEPTNO FROM EMPLOYEES

WHERE department\_id = 50

WITH CHECK OPTION;

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

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT50	<u>EMPNO</u>	NUMBER	22	-	-	-	-	-	-
	<b>EMPLOYEE</b>	VARCHAR2	50	-	-	-	~	-	-
	<u>DEPTNO</u>	NUMBER	22	-	-	-	~	-	-
								1	- 3

7. Attempt to reassign Matos to department 80.

UPDATE DEPT50 SET DEPTNO = 80 WHERE EMPLOYEE = 'Brown';

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 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;