

231901063 yarra jaisurya EXPNO:05 CREATING VIEWS
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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 | |

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 | EMPNO | NUMBER | 22 | - | - | - | - | - | - |
| | EMPLOYEE | VARCHAR2 | 50 | - | - | - | ✓ | - | - |
| | DEPTNO | NUMBER | 22 | - | - | - | ✓ | - | - |
| 1 - 3 | | | | | | | | | |

7. Attempt to reassign Matos to department 80.

```
UPDATE DEPT50
```

```
SET DEPTNO = 80  
WHERE EMPLOYEE = 'Brown';
```

```
ORA-02291: integrity constraint (KAVIYA.V.SYS_C007586) violated - parent key not found
```

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;
```