

Assignment 7

Name: Rana emad

Task 1: Creating a Simple View

Question:

Create a simple view named vw_employee_details that displays the first name, last name, and department name of employees.

Instructions:

1. Use the CREATE VIEW statement to define a new view.
2. Select the columns fname, lname, and dname (department name) from the appropriate tables.
3. Use JOIN to connect the employees and departments tables using the department ID.

```
CREATE VIEW vw_employee_details AS SELECT e.fname, e.lname, d.dname FROM employees e  
JOIN departments d ON e.department_id = d.department_id;
```

Task 2: Modifying a View

Question:

Modify the existing view vw_work_hrs to only include employees working in department number 5.

Instructions:

1. Use the CREATE OR REPLACE VIEW statement to update the view.
2. Filter the results using the WHERE clause to include only employees with department number 5.
3. Ensure that the columns selected are fname, lname, pname, and hours.

```
CREATE OR ALTER VIEW vw_work_hrs AS SELECT e.fname, e.lname, p.pname, h.hours  
FROM employees e JOIN work_hours h ON e.emp_id = h.emp_id  
JOIN projects p ON h.project_id = p.project_id WHERE e.department_id = 5;
```

Task 3: Creating Views with Check Option Question:

Create a view named vw_high_status_suppliers to display all suppliers with a status greater than 15, and ensure that any updates or inserts through the view still meet the status condition.

Instructions:

1. Use the CREATE VIEW statement to define the view.
2. Include the WITH CHECK OPTION to enforce that all modifications through the view adhere to the condition that status must be greater than 15.
3. Use a SELECT statement to pull all columns from the suppliers table.

```
CREATE VIEW vw_high_status_suppliers AS SELECT * FROM suppliers WHERE status > 15  
WITH CHECK OPTION;
```