

# Assignment 7

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## **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.

### **Answer :**

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

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## **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.

### **Answer :**

```
CREATE OR REPLACE VIEW vw_work_hrs AS  
SELECT e.fname, e.lname, p.pname, w.hours  
FROM employees e  
INNER JOIN projects p ON e.emp_id = p.emp_id
```

```
INNER JOIN work_hours w ON e.emp_id = w.emp_id
```

```
WHERE e.dept_id = 5;
```

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### **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.

#### **Answer :**

```
CREATE VIEW vw_high_status_suppliers AS
```

```
SELECT *
```

```
FROM suppliers
```

```
WHERE status > 15
```

```
WITH CHECK OPTION;
```