**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.

**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.

**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.

**Task 4: Using Date and Time Functions**

**Question:**  
Write a SQL query to retrieve all employees who were hired within the last 30 days from the current date.

**Instructions:**

1. Use the SELECT statement to choose all relevant columns from the employees table.
2. Utilize a date function such as CURRENT\_DATE or GETDATE() depending on your SQL dialect.
3. Apply date arithmetic to filter rows where the hire date is within the last 30 days.
4. Use the WHERE clause to compare hire dates.

**Task 5: Creating and Using a Stored Procedure**

**Question:**  
Create a stored procedure named sp\_get\_employee\_hours that retrieves the first name, last name, and total hours worked on projects for a given employee ID.

**Instructions:**

1. Define the stored procedure using the CREATE PROCEDURE statement.
2. Include a parameter for the employee ID (emp\_id).
3. Use a SELECT statement to fetch the required columns (fname, lname, total\_hours) from the employees and works\_on tables.
4. Join the tables on the appropriate keys (e.g., SSN = ESSN).
5. Sum the hours worked using the SUM() function and group by employee details.

**Task 6: Creating a Stored Procedure for Employee Count by Department**

**Question:**  
Create a stored procedure named sp\_department\_employee\_count that retrieves the department ID, department name, and the number of employees in each department, but only for departments with more than 5 employees.

**Instructions:**

1. Define the stored procedure using the CREATE PROCEDURE statement.
2. Use a SELECT statement to fetch the department ID, department name, and count of employees.
3. Use a JOIN to connect the departments and employees tables on the department ID.
4. Use the GROUP BY clause to group results by department.
5. Apply the HAVING clause to filter departments with more than 5 employees.