## Lab Task 12

## Stored Procedures, Triggers

- Stored Procedure: Create a stored procedure named AddEmployee that takes the following parameters: @EmployeeID INT, @FirstName VARCHAR(50), @LastName VARCHAR(50), @DepartmentID INT. The procedure should insert a new employee record into the Employees table with the provided details.
- Trigger: Create a trigger named UpdateDepartmentEmployeeCount that automatically updates
  the EmployeeCount column in the Departments table when a new employee is added. The
  trigger should increment the EmployeeCount by 1 for the corresponding department.
- 3. **Trigger:** Create a trigger named UpdateEmployeeSalary that automatically updates the Salary column in the Employees table when a new employee is added. The trigger should set the initial salary based on the department's default salary.
- 4. **Stored Procedure:** Create a stored procedure named RemoveEmployee that takes the following parameter: @EmployeeID INT. The procedure should delete the employee record from the Employees table based on the provided EmployeeID.
- 5. **Trigger:** Create a trigger named UpdateDepartmentEmployeeCountOnDelete that automatically updates the EmployeeCount column in the Departments table when an employee is removed. The trigger should decrement the EmployeeCount by 1 for the corresponding department.
- 6. **Stored Procedure:** Create a stored procedure named GetEmployeesByDepartment that takes the following parameter: @DepartmentID INT. The procedure should return a list of employees belonging to the specified department.

## Instructions:

- Write the SQL code for each task and execute it in the SQL Server Management Studio (SSMS).
- Test the stored procedures and triggers by adding and removing employees from departments and checking the results.

## Schema

```
-- Create Employees Table
CREATE TABLE Employees (
  EmployeeID INT PRIMARY KEY,
  FirstName VARCHAR(50),
  LastName VARCHAR(50),
  DepartmentID INT,
  Salary DECIMAL(10, 2)
);
-- Create Departments Table
CREATE TABLE Departments (
  DepartmentID INT PRIMARY KEY,
  DepartmentName VARCHAR(100),
  EmployeeCount INT
);
-- Insert Sample Data into Departments Table
INSERT INTO Departments (DepartmentID, DepartmentName, EmployeeCount)
VALUES
  (1, 'IT', 0),
  (2, 'HR', 0),
  (3, 'Finance', 0);:00');
```