Chapter 15

How to code stored procedures

Exercises

- 1. Write a script that creates a stored procedure named spStudentUnits that calculates the total course units for a student in each semester. The sp should accept one parameter for the student ID and return a recordset.
- 2. Write a script that creates a stored procedure named spCoursestaught that returns a list of all courses that are taught for a specific instructor. The sp should accept one optional parameter for the InstructorID and return a recordset of the courses taught by that instructor. If no ID is provided return the result for all the instructors.
- 3. Write a script that creates a stored procedure named spInsertDepartment. The procedure should accept one parameter for a department name, which it uses to add a new row to the Departments table.
 - In the same script, code two EXEC statements to test the new procedure. One should succeed and one should fail. (Hint: Note that the Departments table doesn't allow duplicate department names.)
- 4. Write a script that creates a stored procedure named spInsertInstructor that inserts a row into the Instructors table. This stored procedure should accept a parameter for each of these columns: LastName, FirstName, Status, DepartmentChairman, AnnualSalary, and DepartmentID.
 - This stored procedure should set the DateAdded column to the current date.
 - If the value for the AnnualSalary column is a negative number, the stored procedure should raise an error that indicates that this column doesn't accept negative numbers.
 - Code two EXEC statements that test this procedure, one that succeeds and one that fails.
- 5. Write a script that creates and calls a stored procedure named spUpdateInstructor that updates the AnnualSalary column in the Instructors table. This procedure should have two parameters, one for the instructor ID and another for the annual salary.
 - If the value for the AnnualSalary column is a negative number, the stored procedure should raise an error that indicates that the value for this column must be a positive number.
 - Code two EXEC statements that test this procedure, one that succeeds and one that fails.