SQL 2014 Developer, Part 02 of 13: Stored Procedures

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Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or coauthor of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This course assumes that you have a basic familiarity with the concept of relational databases and a basic understanding of what SQL Server is and the high-level tools in it, as well as how to create and manage objects using Management Studio. You should also have a basic understanding of how SQL Server implements security, including its authentication and authorization schemes, and how to assign permissions on securable objects to principals. You should know the fundamentals of Transact-SQL to write queries to retrieve and update data, and how to execute scripts using the query editor in Management Studio. It will be very helpful, but not absolutely necessary, to have experience with .NET development using Visual Studio 2010 or 2012 for the portions of the course that deal with SQLCLR development. The .NET code included in this course is written in C#, but if you prefer Visual Basic it should be fairly easy to convert the code.

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Course description: In this course we' Il start by looking at stored procedure features and the benefits of using them. Then you' Il learn about the syntax of the CREATE PROCEDURE statement, and some of the options for using stored procedures, including input and output parameters, return values, and results sets. You' Il also learn how to debug these code modules, as well as shape the results when executing a stored procedure. Then you' Il learn about a special kind of stored procedure, a trigger. A trigger runs automatically in response to changes to your data, letting you enforce complex business rules and perform other actions. You' Il learn about the different kinds of triggers as well as some risks in their use, and then we' Il get into the details of creating and using triggers effectively.

Course outline:

Introduction Stored Procedures

- Introduction
- · Stored Procedure Features
- · Performance Benefits
- Deferred Name Resolution
- Execution Plans
- Plan Recompilation
- Using Schema Qualifiers
- Why Use Stored Procedures
- Summary

Creating Stored Procedures

- Introduction
- Stored Procedure Syntax
- Create Using Management Studio
- Demo: Ways to Create
- Demo: Creating a Procedure
- Demo: Explaining SET NOCOUNT
- Demo: Working With Parameters
- Demo: Optional Parameters
- Summary

Returning Data From

- Introduction
- Demo: Output Parameters
- Demo: Return Statement

- Demo: Returning as Result Set
- · Demo: Using Variables
- Demo: Syntax Errors
- Summary

Testing and Debugging

- Introduction
- Demo: Stepping into Code
- Demo: Debugging Windows
- Demo: Debug and Print Statment
- Demo: Variables with Procedures
- Demo: Test with Valid Inputs
- Demo: Test with Invalid Inputs
- Summary

Execute with Result Sets

- Introduction
- Execute WITH RESULT SETS
- Demo: Execute WITH RESULT SETS
- Demo: Shaping Results
- Summary

Creating Triggers

- Introduction
- Creating Triggers
- Types of Triggers
- Uses for Triggers
- The Trouble with Triggers

- · How Triggers Work
- · Demo: Creating Triggers
- Creating an INSTEAD OF Trigger
- · Demo: Creating the View
- Demo: INSTEAD OF Trigger
- DDL Triggers
- Demo: DDL Triggers
- Summary

