

DEVELOPING AND TESTING SQL SERVER DATABASES WITH VISUAL STUDIO 2010

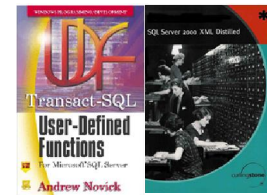
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- SQL Server & .Net Consultant
Business Application Focus
- www.NovickSoftware.com
- Books:
 - Transact-SQL UDFs
 - SQL Server 2000 XML Distilled



Agenda –

- Introduction to the Data Dude and it's history
- Data Dude concepts – Compile your SQL?
- Testing with the Data Dude
- Data Generation
- Static Code Analysis

A rose by any other name...



The many names...

- The Data Dude
- Visual Studio Team System Database Edition
- Visual Studio Database Edition
- Visual Studio DB Pro
- VSTS Database Edition GDR
- Visual Studio 2010 Database Projects

Working with SQL files in VS2010

- Most features of SSMS Editor
 - Intellisense
 - Syntax Coloring
 - Execution of scripts and viewing results
 - Execution Plans
 - SQLCMD mode
- Works with SQL Azure

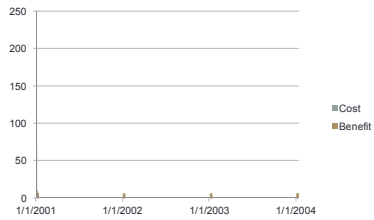
Database Projects

- SQL Development becomes first class
 - Build/Compile lifecycle
 - TFS Integration
 - Import Database Schema
 - Import from .SQL files
 - BUILD integration
 - Continuous integration
 - Test Projects
 - Syntax Analysis

Testing

- Create Test Projects
- Run and re-run database tests
- Test is written in T-SQL
- Underlying C# or VB.Net project

Cost-Benefit Problem for Testing



Test Management

- Create Database Unit-Test

Data Generation

- Generate data either random or by a plan

Static Code Analysis

TFS Integration

- 1st Class project in TFS
- Work item / reporting same as other projects
- Can use the Build System
- Analyze (“Blame”) functionality
[Read more >>](#)

Schema Compare

- Compare
 - Files to Database
 - Database to Files
 - Database to database
 - Files to files
- Similar to Red-Gate SQL Compare

Data Compare

- Compare data in two databases
- Similar to Red-Gate SQL Data Compare

Partial Project

- Facilitates Code Reuse
- A Way to “Include” code in several projects

Database Provider Model

- Introduced in 2008 GDR
- IBM – DB2
- Quest Oracle DSP – Feb 2009
 - Toad Extensions for Visual Studio 2010



Data-Tier Project

- Very similar to Database Project
- Created by a different Team (SQL Server Team)
- Usable in SSMS

Resources

- DBProj.com
- Gert Drapers Blog:
<http://blogs.msdn.com/b/gertd/contact.aspx>

New England Visual Basic Pro

- Meet the first Thursday of the Month
- Microsoft Waltham 201 Jones Rd. 6th Floor – MPR-C
- October – Utility Roundup! - With Pizza

Thank you for Coming

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www.NovickSoftware.com



www.NovickSoftware.com/Presentations/sql-azure/sql-azure.htm