SQL Server 2008 R2: What's New

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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 co-author 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.

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Course description: SQL Server 2008 brought many changes to the SQL platform and the R2 release added many more. This course will help to bring you up to speed on these changes and how they will affect how you work with SQL Server. You will see what is new with installation and security, see its support for managing data-tier applications and a multi-server environment, and learn about PowerPivot, which Microsoft calls "managed self-service business intelligence" that gets BI data in the hands of users who need it. Next you will learn about the new StreamInsight feature that lets you query high-volume data streams for useful nuggets of information and emerging trends. Reporting Services probably received by far the most enhancements in R2 and you will learn about the new expression language and data visualization features. Report Manager and Viewer received major overhauls, and you will see how to put them to good use, as well as exploring how to put Report Builder to use creating great reports.

Course outline:

SQL Server 2008 R2

- Introduction
- Focus of R2
- What Hasn"t Changed in R2?
- New Top-End Premium Additions
- Features Migrated to Lower Editions
- Summary of Editions
- Enhanced Security
- Credential Forwarding Attacks
- Extended Protection In Windows
- Extended Protection and SQL
- Demo: Activate Extended
 Protection
- Summary

Installation And MDS

- Introduction
- Installation Enhancements
- New Installation Options
- New Command Line
 Parameters
- Running SQL Server Side-by-Side
- Categories of Components
- Shared Components
- Using Master Data Services
- Master Data Management
- Master Data Services
- MDS Components
- Defining the Data
- Using Master Data
- Summary

Multi-Server Management

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Introduction

- SQL Server Utility
- Demo: Utility Explorer
- Data-Tier Applications
- Data-Tier Applications (DAC)
- DACs as Collaborative Tool
- Limits & Requirements of DACs
- Limitations on DACs
- Creating Data-Tier Applications
- Demo: Creating a DAC
- Import a DAC
- Demo: Import a DAC
- Summary

Data Tier Applications

- Introduction
- Extracting a DAC
- Demo: Extract a DAC
- Working with DACs
- Demo: Working with DACs
- Delete a DAC Registered in SQL
- Demo: Delete a DAC
- Summary

Register and Manage DACs

- Introduction
- Register Data-Tier Application
- Demo: Registering Data-Tier
- Upgrading and Updating a DAC
- Updating a DAC: Visual Studio
- Demo: DAC Visual Studio
- Summary

Intro to PowerPivot

Introduction

- Client and Server Tools
- PowerPivot Components
- Data Access Tools
- Importing Data
- PowerPivot Data Types
- PowerPivot Reports
- Working with PowerPivot
- Demo: PowerPivot
- Summary
- **PowerPivot Features**
- Introduction
- Demo: Power Pivot Features
- Demo: Relationships
- Demo: Changing Aspects
 Summary

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- Text, Data and Analysis

 Introduction
- Demo: Delimited Text Files
- Demo: Import Linked Tables
- Demo: Create PowerPivot
- Report

 Summary

Stream Insite Intro

- n Introduction
 - Complex Event Processing
 (CEP)
 - CEP Uses
 - Queries vs. Event Processing
 - Microsoft StreamInsight
 - Availability
 - StreamInsight Architecture
 - Streams

- Events and Data Structures
- Input and Output Adapters

Installing StreamInsight

Demo: StreamInsight

· Querving a Data Stream

· Demo: Highway Monitor

Demo: Highway Monitor
 Other Query Options

SSRS Sources and

New Data Sources

Lookup Function

Cache Refresh Plans

• Expression Language

Lookup Functions Syntax

Demo: Lookup Function

Aggregates of Aggregates

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MultiLookup Function

· Demo: Aggregates

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Lookup Functions-Join Datasets

• Windowing and Aggregation

StreamInsight Base Classes

Demo: Installing StreamInsight

Developing with StreamInsight

Queries

Summary

Querying

Introduction

Summary

Expressions

Introduction

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- RenderFormat
- Demo: RenderFormat
- Summary

SSRS Variables and Layout

- Introduction
- Writable Report Variables
- Demo: Writable Report Variable
- Layout Enhancements
- Demo: Layout Enhancements
- · Pagination and Page Numbering
- · Demo: Pagination and Numbering
- Summary

Data Alignment and Atom Feed

- Introduction
- Synchronized Data Alignment
- Demo: Data Alignment
- Report as Atom Data Feed
- Demo: Atom Data Feed
- Summary

Shared Datasets

- Introduction
- Shared Datasets
- · Benefits of Shared Datasets
- · Creating Shared Datasets
- · Demo: Shared Datasets
- Which Kind of Dataset to Use
- Summary

Data Visualization

- Introduction
- Make Report Data Come Alive
- Data Bars
- Demo: Data Bars
- Sparklines
- · Demo: Sparklines
- Indicators
- Demo: Indicators
- Summary

Mapped Based Data

- Introduction
- Map-Based Data
- Map Data
- Types of Spatial Data
- Layers
- Demo: Map Based Data
- Summary

Managing Reporting Services

- Introduction
- Reporting Services Tools
- Configuration Manager
- · Demo: Configuration Manager
- Reporting Services
- · Demo: Management Studio
- Summary

Report Manager

- Introduction
- Report Manager
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- Starting Report Manager
- · Demo: Report Manager
- Report Viewer
- Browser Support
- Demo: Report Viewer
- Summary

Report Builder and Models

- Introduction
- · Report Builder vs. Designer
- Demo: Report Builder
- Standalone vs. ClickOnce
- Models
- Create the Model
- · Demo: Data Model
- Summary

Creating Reports

- Introduction
- Creating Reports
- Demo: Creating Reports
- Preview Performance
- Cache Refresh
- Using Report Parts
- Demo: Report Parts
- Using Reports with SharePoint
- Integrated Mode
- Native Mode
- · Viewing Reports in Native Mode
- Demo: SharePoint
- Summary

- Installing and Starting
 - Creating & Using Report