

SQL Server 2005 Reporting Services

Course Summary

Description

In this course, students will learn how to use SQL Server 2005 Reporting Services to create, execute, and manage reports. Students will learn how to create tabular, matrix (cross-tab), and chart reports using Visual Studio 2005 and SQL Server 2005 Business Intelligence Studio. They will also explore creating reports with groups, expressions, conditional formatting, and parameters. The reports created in the course will employ shared data sources, interactive sorting, and drill-down capabilities. Students will explore the deployment and printing of reports and the export of reports to PDF, Excel, and other formats. They will gain a thorough understanding of Reporting Services security, report snapshots, subscriptions, and the use of custom assemblies. Students will also discover how to integrate reports into ASP.NET and WinForms applications using URL access and the Reporting Services Web Service API, without requiring users to use Internet Explorer. Finally, students will learn how to empower users to create ad-hoc reports using Report Builder and Report Model projects.

Objectives

At the end of this course, students will be able to:

- Create complex reports employing expressions, the global collections, and conditional formatting
- Create reports with nested groups and multiple parameters
- Manage reports using both the browser-based Report Manager and SQL Server Management Studio-based Report Manager
- Secure reports using integrated security and SSL
- Program reports using URL Access, the Reporting Services Web Service API, the Report Viewer controls, and custom assemblies
- Employ report caching and create report snapshots
- Create standard and data-driven report subscriptions
- Empower users to create ad-hoc reports using Report Builder and the models you create using Report Model projects

Topics

- Introduction to SQL Server Reporting Services
- Creating Reports
- Calculations and Formatting
- Grouping and Sorting
- Report Parameters
- Creating Matrix Reports and Charts
- Managing Reporting Services
- Reporting Services Security
- Programming Reporting Services
- Advanced Reporting Services Programming
- Snapshots and Subscriptions
- Ad-Hoc Reporting with Report Builder

Audience

This course is designed for developers new to SQL Reporting Services, SQL DBAs and IT management.

Prerequisites

Before taking this course, students should have familiarity with databases and the SQL language. Knowledge of SQL Server, Visual Studio .NET/2005, and C# or VB helpful but also not required.

Duration

Three days

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Course Outline

I. Introducing SQL Server Reporting Services

- A. Tour of Features
- B. Reporting Services Architecture
- C. Reporting Services Terminology
- D. Reporting Services Editions
- E. Taking Reporting Services for a Spin

II. Creating Reports

- A. Deconstructing Reporting Services
- B. Shared Data Sources
- C. Creating Reports from Scratch

III. Calculations and Formatting

- A. Creating Expressions
- B. Using the Global Collections
- C. Formatting Items
- D. Conditional Formatting

IV. Grouping and Sorting

- A. Creating Groups
- B. Calculating Totals and Percentages
- C. Interactive Sorting
- D. Creating Drill-Down Reports

V. Report Parameters

- A. Creating Report Parameters
- B. Creating Drop-Down Parameters
- C. Multi-Valued Parameters
- D. Debugging Parameter Issues

VI. Creating Matrix Reports and Charts

- A. Creating a Basic Matrix Report
- B. Matrix Subtotals
- C. Creating a Basic Chart
- D. Exploring the Charting Possibilities

VII. Managing Reporting Services

- A. Deploying Reports and Data Sources
- B. Exporting Reports and Printing
- C. Using the Web-Based Report Manager
- D. Using SQL Server Management Studio-based Reporting Services Manager

VIII. Reporting Services Security

- A. Two Parts to Reporting Services Security
- B. Securing Access to Reports
- C. Data Source Security

IX. Programming Reporting Services

- A. The Many Reporting Services APIs
- B. Integrating Reporting Services into Applications using URL Access
- C. Using the Report Viewer Controls

X. Advanced Reporting Services Programming

- A. Using the Reporting Services Web Service
- B. Working with Custom Assemblies

XI. Snapshots and Subscriptions

- A. Caching and Snapshots
- B. Creating Standard Subscriptions
- C. Creating Data-Driven Subscriptions
- D. Managing Subscriptions

XII. Ad-Hoc Reporting with Report Builder

- A. The Report Builder Architecture
- B. Creating Report Model Projects
- C. Running Report Builder