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## OBJECTIVES

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

## EXPERIENCE

This course assumes familiarity with databases and the SQL language. Knowledge of Visual Studio .NET 2005 and either C# or VB as a programming language is helpful but not required.

## CLASS OUTLINE

- Introducing SQL Server Reporting Services

- Tour of Features
  - Reporting Services Architecture
  - Reporting Services Terminology
  - Reporting Services Editions
  - Taking Reporting Services for a Spin
- Creating Reports
  - Deconstructing Reporting Services
  - Shared Data Sources
  - Creating Reports from Scratch
- Calculations and Formatting
  - Creating Expressions
  - Using the Global Collections
  - Formatting Items
  - Conditional Formatting
- Grouping and Sorting
  - Creating Groups
  - Calculating Totals and Percentages
  - Interactive Sorting
  - Creating Drill-Down Reports
- Report Parameters
  - Creating Report Parameters
  - Creating Drop-Down Parameters
  - Multi-Valued Parameters
  - Debugging Parameter Issues
- Creating Matrix Reports and Charts

- Creating a Basic Matrix Report
  - Matrix Subtotals
  - Creating a Basic Chart
  - Exploring the Charting Possibilities
- Managing Reporting Services
  - Deploying Reports and Data Sources
  - Exporting Reports and Printing
  - Using the Web-Based Report Manager
  - Using SQL Server Management Studio-based Reporting Services Manager
- Reporting Services Security
  - Two Parts to Reporting Services Security
  - Securing Access to Reports
  - Data Source Security
- Programming Reporting Services
  - The Many Reporting Services APIs
  - Integrating Reporting Services into Applications using URL Access
  - Using the Report Viewer Controls
- Advanced Reporting Services Programming
  - Using the Reporting Services Web Service
  - Working with Custom Assemblies
- Snapshots and Subscriptions
  - Caching and Snapshots
  - Creating Standard Subscriptions
  - Creating Data-Driven Subscriptions
  - Managing Subscriptions

- Ad-Hoc Reporting with Report Builder
  - The Report Builder Architecture
  - Creating Report Model Projects
  - Running Report Builder