

Course 2793 — Instructor-led

Course Length: 3 days

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

- Describe SQL Server Reporting Services and its components.
- Create a Reporting Services report.
- Enhance a Reporting Services report.
- Create and manipulate data sets.
- Use report models to implement reporting for business users.
- Configure report publishing and execution settings.
- Implement subscriptions for reports.
- Administer Reporting Services.
- Implement custom Reporting Services applications.

Prerequisites:

Before attending this course, students must have:

- Exposure to creating reports in Microsoft Access or other third-party reporting products, such as Crystal Reports.
- Conceptual understanding of the push and pull distribution/subscription paradigm.
- Experience navigating the Microsoft Windows Server environment.
- Experience with Windows services (starting and stopping)
- Experience creating service accounts and permissions
- Experience with Microsoft SQL Server, including:
 - SQL Server Agent.
 - SQL Server query language (SELECT, UPDATE, INSERT, and DELETE).
 - SQL Server System tables.
 - SQL Server accounts (users and permissions).

Course Outline

Module 1: Introduction to Microsoft SQL Server Reporting Services

This module introduces the role that Reporting Services plays in an organization's reporting life cycle, the key features offered by Reporting Services, and the components that make up the Reporting Services architecture.

Lessons

- Overview of SQL Server Reporting Services
- Installing Reporting Services
- Reporting Services Tools

Lab 1: Using Reporting Services Tools

- Exercise 1: Exploring Report Designer
- Exercise 2: Exploring Report Manager

Module 2: Authoring Basic Reports

This module introduces the fundamentals of report authoring, including configuring data sources and data sets, creating tabular reports, summarizing data, and applying basic formatting.

Lessons

- Creating a Basic Table Report
- Formatting Report Pages

- Calculating Values

Lab 2: Creating a Simple Report

- Exercise 1: Creating a Basic Table Report
- Exercise 2: Formatting Report Pages
- Exercise 3: Adding Calculated Values

Module 3: Enhancing Basic Reports

This module introduces navigational controls and some additional types of data regions, and discusses how to use them to enhance a basic report.

Lessons

- Interactive Navigation
- Displaying Data

Lab 3: Enhancing a Report

- Exercise 1: Using Dynamic Visibility
- Exercise 2: Using Document Maps
- Exercise 3: Initiating Actions
- Exercise 4: Using a List Data Region

Module 4: Manipulating Data Sets

This module explores data sets to a greater depth, including the use of alternative data sources and interacting with a data set through the use of parameters. Students learn how to dynamically modify the data set underlying a

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data region by allowing parameters to be sent to the underlying query. They also learn to use best practices to implement static and dynamic parameter lists when interacting with queries and stored procedures.

Lessons

- Defining Report Data
- Using Parameters and Filters
- Using Parameter Lists

Lab 4: Manipulating Data Sets

- Exercise 1: Using parameters to restrict query results
- Exercise 2: Using parameters to filter report data
- Exercise 3: Creating dynamic parameter lists
- Exercise 4: Using parameters with a stored procedure
- If Time Permits: Displaying all categories in a parameter list

Module 5: Using Report Models

This module describes how to create a report model so that business users can create their own reports without using the full Report Designer development environment. Students also learn how to use Report Builder to create a report from a report model.

Lessons

- Creating Report Models
- Using Report Builder

Lab 5: Working with Report Models

- Exercise 1: Creating a Report Model
- Exercise 2: Using Report Builder to Create a Report

Module 6: Publishing and Executing Reports

This module explains the various options you can use to publish reports to the report server and execute them.

Lessons

- Publishing Reports
- Executing Reports
- Creating Cached Instances
- Creating Snapshots and Report History

Lab 6: Publishing and Executing Reports

- Exercise 1: Publishing Reports
- Exercise 2: Executing a Report On Demand
- Exercise 3: Configuring and Viewing a Cached Report
- Exercise 4: Configuring and Viewing a Snapshot Report

Module 7: Using Subscriptions to Distribute Reports

This module describes how to implement subscriptions so

that you can distribute reports either automatically by e-mail or by publishing reports to a shared folder.

Lessons

- Introduction to Report Subscriptions
- Creating Report Subscriptions
- Managing Report Subscriptions

Lab 7: Implementing Subscriptions

- Exercise 1: Creating a Standard Subscription
- Exercise 2: Creating a Data-Driven Subscription

After completing this module, students will be able to:

- Describe report subscriptions.
- Create report subscriptions.
- Manage report subscriptions.

Module 8: Administering Reporting Services

This module discusses how to administer the Reporting Services server, how to monitor and optimize the performance of the report server, how to maintain the Reporting Services databases, and how to keep the system secure.

Lessons

- Server Administration
- Performance and Reliability Monitoring
- Administering Report Server Databases
- Security Administration

Lab 8: Administering Reporting Services

- Exercise 1: Using Reporting Services Configuration Manager
- Exercise 2: Securing a Reporting Services Site
- Exercise 3: Securing Items

Module 9: Programming Reporting Services

This module explains how to query Reporting Services information programmatically and how to automate report management tasks. Students also learn how to render reports without relying on Report Manager, and how you can extend the feature set of a report server by creating custom code.

Lessons

- Querying for Server Information Using a Web Service
- Automating Report Management
- Rendering Reports
- Creating Custom Code

Lab 9: Programming Reporting Services

- Exercise 1: Using URL Access to Display a Report
- Exercise 2: Building a Reporting Services Web Service Client
- Exercise 3: Using the Report Viewer Control