

Course 2793a: Microsoft SQL Server 2005 Reporting Services for Report Writers

Introduction

Elements of this syllabus are subject to change.

This two-day instructor-led course teaches students how to use the Reporting Services development tools to create reports, and how to use the Reporting Services management and administrative tools to manage a Reporting Services solution.

Audience

This course is intended for report developers who need to implement reporting solutions by using Microsoft SQL Server 2005 Reporting Services.

At Course Completion

After completing 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.
- Implement subscriptions for reports.
- Administer Reporting Services.

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.
- Experience navigating the Microsoft Windows Server environment.
- Knowledge of Microsoft SQL Server, including:
 - SQL Server query language (SELECT, UPDATE, INSERT, and DELETE).
 - SQL Server System tables.

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

After completing this module, students will be able to:

- Describe the features of SQL Server Reporting Services.
- Install Reporting Services.
- Describe the Reporting Services tools.

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

After completing this module, students will be able to:

- Create a basic table report.
- Format report pages.
- Calculate values for a report.

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

After completing this module, students will be able to:

- Create reports with interactive navigation.
- Display data in various formats.

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 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

After completing this module, students will be able to:

- Define report data.
- Use parameters and filters.
- Use parameter lists.

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

After completing this module, students will be able to:

- Create Report Models.
- Use Report Builder.

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