... to Your Success!"

MOC 55170 A Writing Reports with Report Designer and SSRS 2016 Level 2

Course Summary

Description

In this 2-day course, students will continue their learning on the foundations of report writing with Microsoft SQL Server Report Designer and SSRS. The focus will be on report creation by connecting to a database and manipulating the data for presentation including: creating parameter reports, creating list reports, adding complex expressions to reports, adding images and subreports to reports, adding drilldown and drillthrough functionality, and adding sparklines, data bars, and indicators to reports. Report Designer is available for all supported versions of Microsoft SQL Server.

Objectives

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

- Create parameter reports.
- Create list reports.
- Format reports with complex expressions.
- Add images and subreports.
- Add drilldown and drillthrough functionality.
- Add sparklines, data bars, and indicators.

Topics

- Parameter Reports
- List Data Regions
- **Enhancing Reports with Complex** Expressions

- Enhance Reports with Images and Subreports
- Sparklines, Data Bars, and Indicators

Audience

The primary audience for this course is persons who are new to reporting with Microsoft SQL Server Report Designer and SSRS, persons who are transitioning from another reporting software application, and persons who are existing Report Builder and SSRS report authors.

The secondary audience for this course is persons who are using Report Builder (SSRS).

Course participants may be business analysts, programmer analysts, data analysts, database administrators, or IT professionals and may or may not have experience with Microsoft SQL Server Report Builder and SSRS, programming (Visual Basic), and/or Transact-Structured Query Language (T-SQL) experience.

Prerequisites

Before attending this course, students must have:

- Familiarity with Windows.
- Creating and navigating folders.
- Opening programs.
- Manipulating windows.
- Copying and pasting objects.
- Formatting text.
- Saving files.

- Drilldown and Drillthrough Reports

Microsoft Office Access 2013: Level 1 or have equivalent experience with basic database concepts.

Course 55123: Writing Reports with Report Builder and SSRS Level 1

Duration

Two days

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Course Outline

I. Parameter Reports

This module introduces the use of the parameter in report writing. Parameters allow a level of self-service reporting wherein the report audience can choose the data to view (date range, department, geography, etc.).

- A. Parameterized Reporting
- B. Create Report Parameters
- C. Modify Report Parameters
- D. Provide Default Parameter Values
- E. Provide Available Values for Parameters

Lab: Creating Parameterized Reports

- Create Single Value Parameter Reports
- Create Multi-Value Parameter Reports
- Create an Available Values Parameter Report
- Create a Parameter Report with Default Values
- Modify Existing Parameter Reports

II. List Data Regions

This module introduces the list data region. List data regions allow report writers free-form control over their reports, whereas, table and matrix reports bind you to a table or matrix data presentation. This free-form feature affords the report writer the ability to truly customize the report.

- A. Introducing the List Data Region
- B. Create Reports Using List Data Regions
- C. Modify Reports Which Use List Data Regions

Lab: Creating List Reports

- Create a Multiple Column Report with List Data Regions
- Create a Report with Rectangles and Nested Data
- Create an Enhanced Report with Rectangles and List Data Regions

III. Enhancing Reports with Complex Expressions

This module introduces several new report formatting techniques which allow the report writer better control over the data displayed in the report.

- A. Formatting Reports
- B. Top N Reports
- C. Running Values

Lab : Enhancing Reports with Complex Expressions

- Create Conditional Formats for Data
- Use Complex Expressions in Charts
- Calculate Running Values in Table and Matrix Data Regions
- Create TOP N Reports
- Add Row Banding in Table and Matrix Reports

IV. Enhance Reports with Images and Subreports

In this module, students will add images and reports (subreports) to reports, tour and students will be introduced to SSRS (SQL Server Reporting Services).

- A. Add Images to Reports
- B. Retrieve Images from a Database
- C. Introducing SSRS (SQL Server Reporting Services) Report Server
- D. Add Subreports to Reports

Lab: Working With Images and Subreports

- Add an Image to an Existing Report
- Display Images from a Database in a Report
- Format HTML5 Data to Display Properly in a Report
- Use SSRS Report Server to Facilitate Subreporting
- Add Subreports to a Report
- Add Parameterized Subreports to Reports
- Describe the available options for adding images to reports.
- · Add images to reports.
- Describe the features of SSRS Report Server
- Add subreports and parameterized subreports to reports.

V. Drilldown and Drillthrough Reports

This module introduces the ToggleByltem and Action properties to incorporate drilldowns and drillthrough reporting.

A. Add and Configure Drilldown Reporting

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Course Outline (cont'd)

B. Add and Configure Drillthrough Reporting

Lab: Add Drilldown and Drillthrough Functionality to Reports

- Add Drilldown Functionality to Text Boxes
- Add Drilldown Functionality to Groups
- Add Drilldown Functionality to Group Hierarchies
- Add Drillthrough Functionality to a Report
- Add Parameterized Drillthrough Functionality to a Chart
- Describe the key features of drilldowns and drillthroughs in a report.
- Add drilldowns to Reports.
- Add drillthroughs to Reports.
- Add parameterized drillthroughs to Reports.

VI. Sparklines, Data Bars, and Indicators

This module introduces the ability to create and add charts to reports. Whether through wizard or individual effort, chart reports or charts as report components allow us to visualize data with or without the details.

- A. Sparklines
- B. Data Bars
- C. Indicators

Lab : Adding Sparklines, Data Bars, and Indicators to Reports

- Create Group Charts
- Add Indicators and Data Bars to a Report
- Add Sparklines to a Report
- Add Indicators to a Report
- Add Sparklines, Data Bars, and Indicators to a Report
- Describe the key features of incorporating mini-charts and minigauges in reports.
- Add and modify sparklines, data bars, and indicators in reports.