

KOENIG SOLUTIONS · COURSE OUTLINE

Analyzing Data with SQL Server 2016 Reporting Services (SSRS)

Learn to build, format, share and administer paginated and mobile reports using SQL Server Reporting Services.

11

MODULES

32

TOPICS

29

HANDS-ON ACTIVITIES

COURSE OVERVIEW

This course covers Microsoft SQL Server Reporting Services, its components and tools, and how to configure data sources, connection strings and datasets. It then covers creating and publishing paginated reports, applying filters and parameters, and visualising data with charts, databars, sparklines, gauges and maps. Further modules address grouping, sub-reports and drillthrough, scheduling, caching and subscriptions, and administering and extending Reporting Services through expressions, custom code and integration. The final modules introduce designing, publishing and developing mobile reports, including drillthrough actions and dataset parameters.

WHO THIS COURSE IS FOR

Report Developers

BI Developers

Database Administrators

System Administrators

Data Analysts

LEARNING OBJECTIVES

- Describe Reporting Services components and tools
- Configure data sources, connection strings and datasets
- Create and publish reports using the Report Wizard
- Implement report filters and parameters
- Apply formatting, images, charts, gauges and maps
- Organise report data through grouping, sub-reports and drillthrough
- Plan report scheduling, caching and subscriptions
- Develop mobile reports with drillthrough actions

11 Modules, 32 Topics

01

2 Activities

Introduction to Reporting Services

This module introduces Microsoft SQL Server Reporting Services, its components, and the tools used to work with it.

TOPICS

Introduction to reporting services · Reporting services components · Reporting services tools

02

Activity

Activity

Reporting Services Data Sources

Almost every report that you publish by using SQL Server Reporting Services (SSRS) will be built using data that's obtained from one or more source systems. This lesson explains how to configure SSRS to interact with source data systems by working with data sources.

TOPICS

Data sources · Connection strings · Datasets

03

4 Activities

Creating Paginated Reports

Now that you have learned about BI and data modelling, and how to access data from Report Designer and Report Builder, you need to learn how to create reports. This module shows you how to create different types of reports in both applications, in addition to using the Report Wizard.

TOPICS

Creating a report with the report wizard · Creating a report · Publishing a report

04

2 Activities

Working with Reporting Services Data

It is common for business requirements to change regarding the information they need and how they want data presented. On viewing a detailed report, senior management might ask for higher level, summarized, or filtered versions of the same report. Report Builder and Report Designer support these scenarios via filtering, sorting, drilldowns, grouping and the parameterizing of reports. In this module, you will see how to use filters and parameters to make reports more dynamic and useful to business users.

TOPICS

Data filters · Report parameters · Implementing report filters and parameters

05**2 Activities**

Visualizing Data with Report Services

As the amount of data being generated continues to grow, the need to make sense of its meaning increases. You use data visualization to make data easier to understand, and faster to interpret. Data visualizations highlight comparisons, show trends, and convey scale much faster than a table of numbers could. The detail is important, but visualizations are a highly effective way of conveying meaning and insights quickly and accurately.

TOPICS

- Formatting data
- Images and charts
- Databars, sparklines, indicators, gauges, and maps

06**2 Activities**

Summarizing Report Data

As the amount of data we need to deal with increases, so does the requirement to manage data by grouping and summarizing. In this module, you will learn how to create group structures, summarize data, and provide interactivity in your reports, so that users see the level of detail or summary that they need.

TOPICS

Sorting and grouping · Report sub-reports · Drilldown and drill through

07**3 Activities**

Sharing Reporting Services Reports

When you have published a Reporting Services report, users can view the report interactively. In some situations, it can be advantageous to run reports automatically, either to improve performance through caching and snapshots, or to deliver reports to users, by using e-mail or other mechanisms. To run reports automatically, you need to understand how Reporting Services manages scheduling. This module covers report scheduling, caching and the report life cycle, and automatic subscription and delivery of reports.

TOPICS

Schedules · Report caching, snapshots, and comments · Report subscription and delivery

08**2 Activities**

Administering Reporting Services

System administrators take responsibility for the configuration and day-to-day operations of IT systems. In SQL Server Reporting Services (SSRS), administrative tasks include the configuration of the web portal and web service, branding the web portal, and ensuring that access to sensitive reports is carefully controlled. Administrators also monitor and optimize performance.

TOPICS

Administering reporting services · Reporting services configuration · Reporting services performance

09**3 Activities**

Extending and Integrating Reporting Services

Although Reporting Services is a powerful tool, its built-in capabilities might not always meet your needs. This module covers the methods for extending the functionality of Reporting Services with expressions and custom code. You will also learn about the methods for working with Reporting Services programmatically, and integrating Reporting Services reports into other applications.

TOPICS

Expressions and embedded code · Extending reporting services · Integrating reporting services

10**3 Activities**

Introduction to Mobile Reports

This module introduces the design and publication of reports that are intended for consumption on mobile devices, such as smartphones and tablets. Microsoft SQL Server Reporting Services (SSRS) includes support for mobile reports, although the tools that are used to design and publish mobile reports are different to the tools used for the paginated reports discussed in the earlier modules of this course.

TOPICS

Overview of mobile reports · Preparing data for mobile reports · Mobile report publisher

11**4 Activities**

Developing Mobile Reports

In this module, you will learn about the element types that you can add to your Microsoft SQL Server Reporting Services mobile reports. You will also learn about working with dataset parameters, and how to add drillthrough actions to your reports.

TOPICS

Designing and publishing mobile reports · Drillthrough in mobile reports

Practise What You Learn

#	MODULE	ACTIVITY
01	Introduction to Reporting Services	LAB : EXPLORING REPORTING SERVICES ■ Exploring reports ■ Reporting services configuration
02	Reporting Services Data Sources	Lab : Configuring data access with report builder: Configuring data access with report builder Lab : Configuring data access with report designer: Configuring data access with report designer
03	Creating Paginated Reports	LAB : CREATING REPORTS ■ Use the report wizard – report designer ■ Use the report wizard – report builder ■ Creating and publishing a report – report designer ■ Creating and publishing a report – report builder
04	Working with Reporting Services Data	LAB : CREATE A PARAMETERIZED REPORT ■ Using parameters in report designer ■ Using parameters in report builder
05	Visualizing Data with Report Services	LAB : MANAGE FORMATTING ■ Report designer ■ Report builder
06	Summarizing Report Data	LAB : SUMMARIZING REPORT DATA ■ Sorting and grouping in report builder ■ Sorting and grouping in report designer
07	Sharing Reporting Services Reports	LAB : SHARING REPORTING SERVICES REPORTS ■ Create a shared schedule ■ Configure caching ■ Subscribe to a report
08	Administering Reporting Services	LAB : ADMINISTERING REPORTING SERVICES ■ Authorize access to reports ■ Web portal branding
09	Extending and Integrating Reporting Services	LAB : EXTENDING AND INTEGRATING REPORTING SERVICES ■ Custom code – report designer ■ Custom code – report builder ■ URL access
10	Introduction to Mobile Reports	LAB : INTRODUCTION TO MOBILE REPORTS ■ Format data for a mobile report ■ Create a mobile report ■ Create KPIs

#	MODULE	ACTIVITY
		LAB : DEVELOPING MOBILE REPORTS
11	Developing Mobile Reports	■ Add a dataset with parameters ■ Design a mobile report ■ Publish a mobile report ■ Add a drill through to a custom URL

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

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1-on-1 Training

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✉ info@koenig-solutions.com