

# Analysing Data with SQL Server Reporting Services

This five-day instructor-led course teaches students how to implement a SQL Server 2016 Reporting Services solution for data analysis in an organization.

The course discusses how to use the Reporting Services development tools to create and manage reports and implement self-service BI solutions

## Who Should Attend

This primary for this course is database professionals who need to fulfil a BI developer role to create reports. Primary responsibilities will include implementing reports and mobile reports.

The secondary audiences for this course are power information workers

## Course Prerequisites

**Before attending this course, participants should have:**

- > Basic knowledge of the Microsoft Windows operating system and its core functionality
- > working knowledge of Transact-SQL such as taught in the 20761C - Querying Data with Transact-SQL course

## Course Objectives

**After completing this course, participants will be able to, among other things:**

- > Describe reporting services & it's components
- > Describe reporting services data sources
- > Implement paginated reports
- > Work with reporting services data
- > Visualize data with reporting services
- > Aggregate Report Data
- > Share reporting services reports
- > Administer report data
- > Expand & integrate reporting services
- > Describe mobile reports
- > Develop mobile reports



Gold Data Analytics  
Gold Data Platform  
Silver Cloud Platform  
Silver Learning

Course Code: 10990C  
Course Duration: 5 Days  
SATV: Yes

## Course Summary

- Module 1: Introduction to Reporting Services
- Module 2: Reporting Services Data Sources
- Module 3: Creating Paginated Reports
- Module 4: Working with Reporting Services Data
- Module 5: Visualising Data with Reporting Services
- Module 6: Summarising Report Data
- Module 7: Sharing Reporting Services Reports
- Module 8: Administering Reporting Services
- Module 9: Extending and Integrating Reporting Services
- Module 10: Introduction to Mobile Reports
- Module 11: Developing Mobile Reports

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 1300 927 394



 [contact@wardyit.com](mailto:contact@wardyit.com)

# Analysing Data with SQL Server Reporting Services

## Course Outline

### Module 1: Introduction Reporting Services

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

#### Lessons

- > Introduction to reporting services
- > Reporting services components
- > Reporting services tools

#### Lab

- > Exploring Reporting Services

### Module 2: 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

#### Lessons

- > Data Sources
- > Connection Strings
- > Datasets

#### Lab

- > Configuring data access with report builder
- > Configuring data access with report designer

### Module 3: 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

#### Lessons

- > Creating a Report with the Report Wizard
- > Creating a Report
- > Showing Data Graphically in a Report

#### Lab

- > Creating Reports

### Module 4: 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.

#### Lessons

- > Data filters
- > Report parameters
- > Implementing report filters and parameters

#### Lab

- > Create a parameterised report

### Module 5: Visualising Data with Reporting 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.

#### Lessons

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

#### Lab

- > Manage formatting

### Module 6: Summarising 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.

#### Lessons

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

#### Lab

- > Summarising report data

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# Analysing Data with SQL Server Reporting Services

## Module 7: 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.

### Lessons

- > Schedules
- > Report caching, snapshots and comments
- > Report subscription and delivery

### Lab

- > Sharing reporting services reports

## Module 8: Administering Reporting Services

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.

### Lessons

- > Administering reporting services
- > Reporting services configuration
- > Reporting services performance

### Lab

- > Administering Reporting Services

## Module 9: Extending & 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.

### Lessons

- > Expressions and embedded code
- > Extending reporting services
- > Integrating reporting services

### Lab

- > Extending and integrating reporting services

## Module 10: 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.

### Lessons

- > Overview of mobile reports
- > Preparing data for mobile reports
- > Mobile report publisher

### Lab

- > Introduction to mobile reports

## Module 11: 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.

### Lessons

- > Designing & publishing mobile reports
- > Drillthrough in mobile reports

### Lab

- > Developing mobile reports

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