



SSRS 2012

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Learning Objective

Towards the end of the sessions, participants would be accustomed with Designing Reports using SSRS 2012

Course Structure

Target audience	Level 1 – Level 3 developers who are currently working/expected to work on SSRS in their projects and have little or no exposure to SSRS
Level	Level 1 – Level 3
Pre-requisites	Exposure to Microsoft SQL Server
Training methods	Presentation and hands on
Evaluation	Online Exam

Agenda

- Building SSRS Reports
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Day 1

Building SSRS Reports

Overview

- Server-based reporting platform
- Can create interactive, tabular, graphical, or free-form reports
- Allows us to create, deploy, manage, and use reports
- Can retrieve data from various data sources
- Can be viewed in various formats
- Centrally manage report security and subscriptions
- Can be viewed over a Web-based or Windows application or SharePoint site
- Can extend and customize your reporting functionality

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Before we start

- SQL Server 2012 with AdventureWorks2012 database installed
- SSRS installed and configured
- Queries for report creation



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Using the Report Wizard



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Manual report creation

- Create a shared data source
- Add a new report
- Designing the report
 - Design the Report table
 - Format the table header
 - Add a Page Header/Footer and use of Built-in Fields
 - Field Formatting
 - Setting report level properties

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Adding parameters to a report

DEMO

- Parameters created by the dataset query
- Manually created parameters



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Exercise

- In Parameters.rdl report, the **SubCategory** Parameter should be filled based on the **Category** filter

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Customizing SSRS Reports

Expressions



- Using common functions in expressions
 - Common functions
 - Most used - =iif (boolean statement, true result, false result)
 - Custom functions

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Day 2

Sub-reports



- Report embedded into another report
- Can take parameters and execute their own datasets

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Grouping

- Allows to create a hierarchy
- Allows to add totals and subtotals

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The Matrix Control

DEMO

- Create pivot table style reports
- Pivoting turns actual data values into column headers

Adding drill downs



Adding dynamic sorting



SSRS Visual Controls

Charts

- Basic Charts
- Formatting the charts
- Chart Types

Indicators



- **Trends** by using trending-up or trending-down arrows.
- **State** by using checkmarks and exclamation marks.
- **Conditions** by like traffic lights and signs.
- **Ratings** by using number of quadrants in a square and stars.

Gauges



- Display key performance indicators (KPIs) in a single radial or linear gauge.
- Place a gauge inside a table or matrix to illustrate values inside each cell.
- Use multiple gauges in a single gauge panel to compare data between fields.

Day 3

Deploying SSRS Reports

Configuring Reports for Deployment

- Report Server Configuration Manager
- Project Properties

Deploying Reports

- Viewing the Published Reports
- Securing Reports
 - Best practices
 - Set up permissions at the folder
 - Use Active Directory group to assign roles
- Managing Reports
 - Subscriptions
 - Cache
 - Snapshot

Report Builder 3.0 – A Self Service BI Tool

- SSDT-BI allows you to work with projects of multiple reports while you can work with only one report at a time with Report Builder 3.0.
- SSDT-BI has an interface that is familiar to developers while Report Builder 3.0 looks more like Office.
- You can publish Report Parts with SSDT-BI. You can utilize Report Parts with Report Builder 3.0.
- SSDT-BI can integrate with source control programs while Report Builder 3.0 cannot.
- Report Builder 3.0 has more wizards than SSDT-BI.

Bibliography, Important Links

- [What's new in SSRS 2012](#)
- [Indicators](#)
- [Gauge](#)
- [Data driven subscription](#)
- [Performance, Snapshots, Caching](#)

Any Questions?





Thank you!