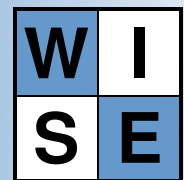
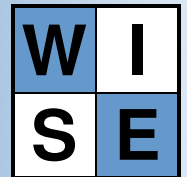


Advanced SQL Server Reporting Services (SSRS) for Report Authors



WISE LTD.

- COURSE CODE:** SQSARS
- COURSE TITLE:** Advanced SQL Server Reporting Services (SSRS) for Report Authors
- CURRENCY:** SQL Server 2008 R2, 2008 and 2005
- LEVEL:** Intermediate-to-advanced
- AUDIENCE:** Report authors and designers, developers, administrators, super-users, etc.
- PREREQUISITES:** Completion of our course 'SQL Server Reporting Services' (SQSSRS or SQSRS8) or equivalent knowledge, e.g.,:
- Working with Business Intelligence Design Studio and/or Visual Studio
 - Designing data sources
 - Connecting to SQL Server and Analysis Services databases
 - Creating datasets and using Query Builder to design T-SQL queries
 - Adding a group to a table or matrix
 - Creating report/query parameters
- Knowledge of SQL on any relational DB platform and some knowledge of OLAP useful.
- DURATION:** 3.5 days
- SUMMARY:** Assuming a working knowledge of the above 'Prerequisites', the delegate should be prepared to delve into some of the more esoteric and advanced SSRS features to support a wide variety of reporting scenarios, including:
- Harnessing the power of OLAP to generate dynamic reports
 - Creating reports that allow users to dynamically group their data
 - Synchronising data visually and within groups
 - Creating user-friendly drill-through reports, calendar reports, forms, labels, etc.
 - Creating 'Excel-like' reports that show trend lines or allow for dynamic pivoting
 - Etc.



OBJECTIVES: Upon completion of this course, the delegate should be competent to design and implement SSRS 2005, 2008 and 2008 R2 reporting requirements to include but not limited to the following:

- Aggregate and semi-additive measures
- Advanced filtering and parameterization
- Dynamic data sources
- Grouping/columnar reports
- Dashboards and KPIs
- Sparklines, custom charts and gauges
- Interactive reporting
- Workarounds for version compatibility
- Etc.

FORMAT: Hands-on (about 65%).

1. WHAT IS/WHAT ARE?

- Report types (e.g., dashboards)
- BI/analytical reports
- Operational reports
- T-SQL
- Stored procedures
- Analysis Services (SSAS)
- MDX
- RDL
- XML

2. REVIEW OF REPORT DESIGN FUNDAMENTALS

- Use of Business Intelligence Design Studio (BIDS)
- Use of Report Builder 2.0/3.0
- Deploy/save reports
- Embedded/shared reports
- Data source creation
- Parameters and dataset filtering
- Data regions
- Tablix vs. matrix vs. tabular vs. list reports
- Expressions and custom code
- Format report data
- Learn-by-doing: self assessment exercise

3. COLUMNAR AND GROUPED REPORTS

- Definition and usage
- Green bar reports
- Alternate table group background colours
- Green bar report on nested groups
- Create dynamic groups
- Hide/show columns in a table
- Nest data regions and use grouping to create horizontal tables
- Reset page number based on groups
- Learn-by-doing exercises

4. BI DASHBOARDS AND ELEMENTS

- Definition and usage
- Create sparklines
- Create dynamic rows via cube hierarchies
- Use Analysis Services metadata to create a report dynamically
- Create an cube browser in reporting services
- Bullet charts
- Synchronising groups, charts and sparklines
- Learn-by-doing exercises

5. CHART AND GAUGE REPORTS

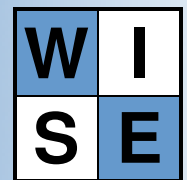
- Definition and usage
- Create custom colour palettes for charts
- Chart keywords
- Combine different chart types, e.g., column chart with line chart
- Customise gauges with images
- Highlight exceptions using gauge and bullet charts
- Group pie chart slices
- How to handle data volume increases on bar and column charts
- Design histograms
- Linear regression line
- Create a multi-series, multi Y-axis chart
- Pareto chart
- Learn-by-doing exercises

6. INTERACTIVE REPORTS

- Definition and usage
- Conditional linking
- Implement drill-through in a multi-level matrix
- Breadcrumb links for drill-through reports
- Dynamically pivot a matrix
- Create navigation via document map table
- Learn-by-doing exercises

7. EMBELLISH REPORT CONTENT

- Definition and rationale
- Calendar report
- Mail merge labels
- Barcodes
- Currency conversion for multiple currency support
- Custom functions
- Control page breaks via conditions
- Dynamically name Excel worksheets for exported reports
- Dynamically update image sources
- Display reports in different languages
- Page running total
- Render dependant layout and formatting
- Create checkbox list to show existing records
- Use a checkbox list to select and deselect records
- Map Wizard
- Learn-by-doing exercises



8. FILTERS AND PARAMETERS

- Definition and usage
- Multiple request report filtering
- Multi-value parameters with stored procedures
- Multi-value parameters with subscriptions
- Parameterized top values report
- Use TOPCOUNT function to restrict rows
- Custom sorting reports
- Filter user-specific reports
- Learn-by-doing exercises

9. REPORTING SERVICES BEST PRACTICES