

SQL Server 2005 Reporting Services

4 Days (BI-SSRS005-301-EN)

Description

This course will introduce Enterprise Reporting, its characteristics and relation to current business projects. It will provide System Administrators with the knowledge necessary to understand and manage a SQL Server 2005 Reporting Services Enterprise Reporting Solution, and Report Designers the skills necessary to design different kinds of reports. Ad-hoc reporting functionalities are state-of-the-art and you will learn how and when to use them. You will also be learning additional topics such as setup, configuration, maintenance, and extensibility.

Target Audience

This course is intended for:

- Future Reporting Services System Administrators
- Future Reporting Services Report Designers

Prerequisites

Before attending this course, it is recommended that students have the following skills:

- General knowledge of Microsoft Windows Platform (Authentication mechanisms, authorization principles, Internet Information Server, SQL Server, Windows Server 2003...)
- General knowledge of SQL and RDBMS, OLAP concepts, XML, and HTML
- General knowledge of programming techniques and/or scripting. Some VB.NET knowledge is desirable

Course Objectives

Upon completion of this course, the student will be able to:

- Design reports with advanced layout
- Manage a SQL Server 2005 Reporting Services Enterprise Reporting Solution

Course Summary Outline

Module 01: Introduction

Tailored to provide a comprehensive understanding of business requirements targeted by the product and pointing at the features that fulfil those requirements.

Introducing Reporting Services

- What is Reporting Services (SSRS)
- Business Scenarios
- Report Life Cycle
- SSRS Architecture
- RDL (Report Definition Language)
- Designers

End user experience

- Report manager
- Viewing, Scheduling, Printing & Exporting
- MyReports

Module 02: Designing Reports

Elements and process involved in the report design. Focusing and common misunderstandings, errors and traps

Module 02.02: Data Sources

- Defining Data Sources
- Relational
- OLAP
- Semantic models
- Types of data sources
- Query assistants
- Data Source Expressions

Module 02.03: Report Layout

- Report bands
- Controls
- Understanding Data Regions
- Graphics

Module 02.04: Report-to-User interactivity

- Filters
- Grouping
- Sorting and Interactive Sorting
- Parameters. Cascading parameters
- Drill-down
- Links (Subreports)

Module 02.05: Advanced features

- Expressions & Functions
- Report Collections
- Conditional formatting
- Embedded code

Module 03: Semantic Models & Report Builder

Review of ad-hoc reporting module.

Introduction

- Ad-hoc Reporting
- Infinite Drilldown

Building Models

- Relational Sources
- OLAP Sources

Building Reports with Report Builder

Module 04: Administering Reporting Services

Elements, features and processes involved. Special focus on how to leverage features to implement a reporting solution matching our business requirements.

Administration Tools

Object management

- Folders
- Data Sources and Credentials
- Reports
- Linked reports

Tuning Report Processing

- Cache
- Snapshots
- History

Authentication and Authorization

- System Level roles and permissions
- Item Level roles and permissions

Subscriptions

- Standard subscriptions
- Data driven Subscriptions

Module 05: Setup, Configuration & Maintenance

Review of additional elements needed to keep a solution up and running.

Architecture Review

Setting Up SSRS

- Scenarios
- HTTPs
- Required accounts

Configuring SSRS

- Configuration Manager
- Configuration files
- Report Builder specific issues

Maintenance

- Encryption Key backup
- SSRS Database backup
- RS Scripting
- Logging

Module 06: Development & Reporting Services

Overview of development tasks related to Reporting Services.

Extending SSRS

Accessing SSRS

- Web Service APIs
- URL Access

Reporting Controls