

M20466 Implementing Data Models and Reports with SQL Server 2014 (SSRS)

5 Day Course

OVERVIEW

This instructor-led course with exercises (Labs) throughout, focuses on creating managed enterprise BI solutions. It covers how to implement multidimensional and tabular data models, deliver reports with Microsoft® SQL Server® Reporting Services, create dashboards with MS SharePoint Server PerformancePoint Services and discover business insights by using data mining.

Key Features:

Introduction to Business Intelligence and Data Modelling

Introduction to Business Intelligence and Microsoft Enterprise BI Platform

Creating Multidimensional Databases

Introduction to Multidimensional Analysis; Creating Data Sources and Data Source Views; Creating a Cube and Overview of Cube Security

Working with Cubes and Dimensions

Configuring Dimensions; Defining Attribute Hierarchies. Sorting and Grouping Hierarchies

Working with Measures and Measure Groups

Working with Measures and Measure Groups

Introduction to MDX

MDX Fundamentals; Adding Calculations to a Cube; Using MDX to Query a Cube

Customizing Cube Functionality

Implementing Key Performance Indicators; Implementing Actions; Perspectives; Translations

Implementing an Analysis Services Tabular Data Model

Creating a Tabular Data Model (TDM); Using an Analysis Services Tab Data Model in an Enterprise BI Solution

Introduction to Data Analysis Expression (DAX)

DAX Fundamentals; Using DAX to Create calculated Columns and Measures in TDM

Implementing Reports with SQL Server Reporting Services

Introduction to Reporting Services; Creating a Report with Report Designer; Grouping and Aggregating Data in a Report; Showing Data Graphically and Filtering Reports Using Parameters

Automating Report Execution and Delivery

Managing Report Security and Execution; Delivering Reports with Subscriptions and Data Alerts; Troubleshooting Reporting Services

Delivering BI with SharePoint PerformancePoint Services

Introduction to SharePoint Server as a BI Platform; Planning Security for a SharePoint Server BI Solution; Planning for PerformancePoint Services

Performing Predictive Analysis with Data Mining

Overview of Data Mining and using the Data Mining Add-in for Excel

Creating a Custom Data Mining Solution

Validating a Data Mining Model; Connecting to and Consuming Data Mining Data



AUDIENCE

This course is intended for database professionals who need to fulfill a Business Intelligence Developer role to create analysis and reporting solutions. Primary responsibilities include:

- Implementing analytical data models, such as OLAP cubes.
- Implementing reports and managing report delivery.
- Creating business performance dashboards. Supporting data mining and predictive analysis.

PREREQUISITES

This course requires that you meet the following prerequisites:

At least 2 years' experience of working with relational databases, including:

- Designing a normalized database.
- Creating tables and relationships.
- Querying with Transact-SQL.
- Some basic knowledge of data warehouse schema topology (including star and snowflake schemas).
- Some exposure to basic programming constructs (such as looping and branching).
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.

After completing this course, students will be able to:

- Describe the components, architecture, and nature of a BI solution.
- Create a multidimensional database with Analysis Services.
- Implement dimensions in a cube.
- Implement measures and measure groups in a cube.
- Use MDX Syntax.
- Customize a cube.
- Implement a Tabular Data Model in SQL Server Analysis Services.
- Use DAX to enhance a tabular model.
- Create reports with Reporting Services.
- Enhance reports with charts and parameters.
- Manage report execution and delivery.
- Implement a dashboard in SharePoint Server with PerformancePoint Services.
- Use Data Mining for Predictive Analysis.

LEVEL: Advanced

COURSE FEE: £1,950 per person (includes course notes & refreshments)

To make a booking and for all enquiries:

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