

Course Details

Course 10778A

Implementing Data Models and Reports with Microsoft SQL Server 2012

Length: 5 Days

Published: January 14, 2013

Language(s): English

Audience(s): IT Professionals

Level: 200

Technology: Microsoft SQL Server 2012

Type: Course

Delivery Method: Instructor-led (classroom)

Prerequisites

Before attending this course, the student should have:

- 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.

Course Outline

Module 1: Introduction to Business Intelligence and Data Modeling

- Introduction to Business Intelligence
- The Microsoft Business Intelligence Platform

Module 2: 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
- Filtering Reports by Using Parameters
- Publishing and Viewing a Report

Module 3: Supporting Self Service Reporting

- Introduction to Self Service Reporting
- Shared Data Sources and Datasets
- Report Parts

Module 4: Managing Report Execution and Delivery

- Managing Report Security
- Managing Report Execution
- Subscriptions and Data Alert
- Troubleshooting Reporting Services

Module 5: Creating Multidimensional Databases

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

Module 7: Working with Measures and Measure Groups

- Working with Measures
- Working with Measure Groups

Module 9: Customizing Cube Functionality

- Working with Key Performance Indicators
- Working with Actions
- Working with Perspectives
- Working with Translations

Module 11: Introduction to DAX

- DAX Fundamentals
- Using DAX to Create Calculated Column and Measures in a Tabular Data Model

Module 13: Creating Data Visualizations with Power View

- Introduction to Power View
- Visualizing Data with Power View

Module 6: Working with Dimensions

- Configuring Dimensions
- Defining Attribute Hierarchies
- Sorting and Grouping Attributes

Module 8: Introduction to MDX

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

Module 10: Implementing a Tabular Data Model with Microsoft PowerPivot

- Introduction to Tabular Data Models and PowerPivot Technologies
- Creating a Tabular Data Model by Using PowerPivot for Excel
- Sharing a PowerPivot Workbook and Using PowerPivot Gallery

Module 12: Implementing an Analysis Services Tabular Data Model

- Introduction to Analysis Services Tabular Data Model Projects
- Developing an Analysis Services Tabular Data Model in SQL Server Data Tools

Module 14: Performing Predictive Analysis with Data Mining

- Overview of Data Mining
- Creating a Data Mining Solution
- Validating a Data Mining Solution
- Consuming a Data Mining Solution