

DEVELOPING SQL DATA MODELS

Course Code: 821532

Learn about SQL Server Analysis Services (SSAS) for SQL Server 2016.

The focus of this 3-day instructor-led course is on creating managed enterprise BI solutions. It describes how to implement both multidimensional and tabular data models and how to create cubes, dimensions, measures, and measure groups.

What You'll Learn

- 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 database
- Use DAX to query a tabular model
- Use data mining for predictive analysis

Who Needs to Attend

- Data analysts and power information workers
- Database professionals who fulfill a BI developer role and create enterprise BI solutions and whose primary responsibilities include:
 - ☒ Implementing multidimensional databases by using SSAS
 - ☒ Creating tabular semantic data models for analysis by using SSAS

Prerequisites

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Experience of querying data using Transact-SQL.

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CLASSROOM LIVE

\$2,095 CAD

3 Day

Classroom Live Outline

1. Introduction to Business Intelligence and Data Modeling
 - Introduction to Business Intelligence
 - Microsoft Business Intelligence Platform
2. Create Multidimensional Databases
 - Introduction to Multidimensional Analysis
 - Create Data Sources and Data Source Views
 - Cubes
 - Overview of Cube Security
 - Configure SSAS
 - Monitoring SSAS
3. Working Cubes and Dimensions
 - Configure Dimensions
 - Define Attribute Hierarchies
 - Implementing Sorting and Grouping Attributes
 - Slowly Changing Dimensions
4. Working with Measures and Measure Groups
 - Working with Measures
 - Working with Measure Groups
5. Introduction to Multidimensional Expressions (MDX)
 - MDX Fundamentals
 - Add Calculations to a Cube
 - Use MDX to Query a Cube
6. Customize Cube Functionality
 - Implement Key Performance Indicators
 - Implement Actions
 - Implement Perspectives
 - Implement Translations
7. Implement a Tabular Data Model by Using Analysis Services
 - Introduction to Tabular Data Models

- Create a Tabular Data Model
 - Use an Analysis Services Tabular Model in an Enterprise BI Solution
8. Introduction to Data Analysis Expression (DAX)
- DAX Fundamentals
 - Using Dax to create Calculated Columns and Measures in a Tabular Data Model
9. Perform Predictive Analysis with Data Mining
- Overview of Data Mining
 - Create a Custom Data Mining Solution
 - Validate a Data Mining Model
 - Connecting to and Consume a Data Mining Model
 - Using the Data Mining add-in for Excel

Classroom Live Labs

- Lab 1: Exploring a BI Solution
- Lab 2: Create a Multidimensional Database
- Lab 3: Work with Cubes and Dimensions
- Lab 4: Configure Measures and Groups
- Lab 5: Use MDX
- Lab 6: Customize a Cube
- Lab 7: Working with an Analysis Services Tabular Data Model
- Lab 8: Create Calculated Columns and Measures using DAX
- Lab 9: Using Data Mining

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VIRTUAL CLASSROOM LIVE

\$2,095 CAD

3 Day

Virtual Classroom Live Outline

1. Introduction to Business Intelligence and Data Modeling
 - Introduction to Business Intelligence
 - Microsoft Business Intelligence Platform
2. Create Multidimensional Databases
 - Introduction to Multidimensional Analysis
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 - Cubes
 - Overview of Cube Security
 - Configure SSAS
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9. Perform Predictive Analysis with Data Mining
- Overview of Data Mining
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 - Connecting to and Consume a Data Mining Model
 - Using the Data Mining add-in for Excel

Virtual Classroom Live Labs

- Lab 1: Exploring a BI Solution
- Lab 2: Create a Multidimensional Database
- Lab 3: Work with Cubes and Dimensions
- Lab 4: Configure Measures and Groups
- Lab 5: Use MDX
- Lab 6: Customize a Cube
- Lab 7: Working with an Analysis Services Tabular Data Model
- Lab 8: Create Calculated Columns and Measures using DAX
- Lab 9: Using Data Mining



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PRIVATE GROUP TRAINING

3 Day

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