



Developing SQL Data Models

This three-day instructor-led course is aimed at database professionals who fulfil a Business Intelligence (BI) developer role.

This course looks at implementing multidimensional databases by using SQL Server Analysis Services (SSAS), and at creating tabular semantic data models for analysis with SSAS.

Who Should Attend:

The primary audience for this course are database professionals who need to fulfil BI Developer role to create enterprise BI solutions. Responsibilities will include

- Implementing multidimensional databases by using SQL Server Analysis Services
- Creating tabular semantic data models for analysis by using SQL Server Analysis Services

The secondary audiences for this course are 'power' information workers/data analysts

Course Prerequisites:

Before attending this course, participants must have, in addition to their professional experience:

- A basic knowledge of the Microsoft Windows operating system & its core functionality
- Working knowledge of Transact-SQL
- Working knowledge of relational databases

Course Objectives:

After completing this course, participants will be able to, for example:

- Describe the components, architecture & nature of a BI solution
- Create a multidimensional database with analysis services
- Implement dimensions in a cube
- Implement measures & measure groups in a cube
- Use MDX syntax
- Customise a cube
- Implement a tabular database
- Use DAX to query a tabular model
- Use data mining for predictive analysis

Course Code: 20768A
Course Duration: 3 Days

Course Summary

Module 1: Introduction to Business Intelligence & Data Modeling

Module 2: Creating Multidimensional Databases

Module 3: Working with Cubes & Dimensions

Module 4: Working with Measures & Measure Groups

Module 5: Introduction to MDX

Module 6: Customising Cube Functionality

Module 7: Implementing a Tabular Data Model by Using Analysis Services

Module 8: Introduction to Data Analysis Expression (DAX)

Module 9: Performing Predictive Analysis with Data Mining

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Call 1300 927 394 to register for this course today as places are strictly limited.



Course Outline

Module 1: Introduction to Business Intelligence & Data Modeling

This module introduces key BI concepts and the Microsoft BI product suite

Lessons

- Introduction to Business Intelligence
- The Microsoft business intelligence platform

Module 2: Creating Multidimensional Databases

This module describes the steps required to create a multidimensional database with analysis services

Lessons

- Introduction to multidimensional analysis
- Creating data sources and data source views
- Creating a cube
- Overview of cube security

Module 3: Working with Cubes and Dimensions

This module describes how to implement dimensions in a cube

Lessons

- Configuring dimensions
- Define attribute hierarchies
- Sorting and grouping attributes

Module 4: Working with Measures & Measure Groups

This module describes how to implement measures and measure groups in a cube

Lessons

- Working with Measures
- Working with Measures Groups

Module 5: Introduction to MDX

This module describes the MDX syntax and how to use MDX.

Lessons

- MDX Fundamentals
- Adding calculations to a cube
- Using MDX to query a cube

Module 6: Customising Cube Functionality

This module describes how to customise a cube

Lessons

- Implementing key performance indicators
- Implementing actions
- Implementing perspectives
- Implementing translations

Module 7: Implementing a Tabular Data Model using Analysis Services

This module describes how to implement a tabular data model in PowerPivot

Lessons

- Introduction to tabular data models
- Creating a tabular data model
- Using an analysis services tabular model in an enterprise BI solution

Module 8: Introduction to Data Analysis Expression (DAX)

This module describes how to use DAX to create measures and calculated columns in a tabular data model

Lessons

- DAX fundamentals
- Using DAX to create calculated columns & measures in a tabular data model

Module 9: Performing Predictive Analysis with Data Mining

This module describes how to use data mining for predictive analysis

Lessons

- Overview of data mining
- Using the data mining add-in for Excel
- Creating a custom data mining solution
- Validating a data mining model
- Connecting to and consuming a data mining model