



TABULAR DATA MODEL WITH SQL SERVER ANALYSIS SERVICE (SSAS)

Course ID : SQL-BI-TDM



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Duration: 2 Days

(12 Hours) 09:00 AM – 04:00 PM



Price: Call (Inhouse training only)

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Data

This course provides training on building Tabular Data Models using SQL Server Analysis Service (SSAS). Creating reports or dashboards directly from SQL Server databases without a data model can result in excessive resource consumption, slow access, and inefficient use of bandwidth.. By leveraging SQL Server to build a data model, reports become faster and more efficient, as aggregations are processed in advance. This approach also supports live Power BI connections.

Objectives

1. Participants will understand the business intelligence tools available in Microsoft SQL Server.
2. Participants will be able to proficiently build tabular data models in SSAS.

Target Audience

1. Data Engineers seeking enterprise-level data modeling tools
2. Data Engineers wanting practical experience with tabular data modeling on SSAS
3. Data Analysts aiming to build data models for use in Power BI
4. Business Analytics professionals preparing tabular data models
5. Chief Data Officers (CDO)
6. Directors and managers
7. Anyone interested in data modeling

Prerequisites

Basic understanding of dimensional modeling (data warehouse concepts)

System Requirements

1. Operating System: Windows 11 or Windows 10
2. CPU : 1.6 GHz or faster
3. RAM : 8 GB or higher
4. Remote Desktop Connection
5. Stable Internet access

TRAINING TOPICS



DAY 1 Morning Session

9:00 AM – 12:00 PM

1. Business Intelligence with Microsoft SQL Server

- Understanding data models: using data from dimensional models (post-ETL) for aggregation and storing results in a tabular format in SSAS
- Overview of Microsoft SQL Server business intelligence tools:
 - Microsoft SQL Server Database Engine
 - Microsoft SQL Server Integration Services
 - Microsoft SQL Server Analysis Services
 - Microsoft SQL Server Reporting Services / Microsoft Power BI Report Server
- The role of data models in business intelligence
- SSAS Tabular Data Model development environment in Visual Studio
 - Options for creating Tabular Data Model projects in Visual Studio
- Example of a dimensional model (data warehouse)



DAY 1 Afternoon Session

1:00 PM – 4:00 PM

2. Building Tabular Data Models

- Importing tables
- Creating measures
- Managing relationships
 - Managing role-playing dimensions

- Managing columns
 - Creating calculated columns
 - Sorting columns
 - Hiding or renaming columns
- Creating and maintaining hierarchies

5. SSAS Configuration

- Managing security in SSAS
- Allocating and managing resources for SSAS
- Monitoring SSAS performance and operations

DAY 2 Morning Session

9:00 AM – 12:00 PM

3. Using SSAS Tabular Data Models in Enterprise Business Intelligence

- SSAS Tabular Data Models use the VertiPaq Engine (now xVelocity Engine) for in-memory columnar databases
- Application in Power Pivot (Excel add-in) and Power BI
- Power BI live connections to SSAS for enterprise-scale data models
- Creating perspectives
- Partitioning
- Processing types
- DirectQuery mode
- Deploying SSAS solutions to target servers

DAY 2 Afternoon Session

1:00 PM – 4:00 PM

4. Introduction to DAX (Data Analysis Expressions)

- Overview of DAX language
- Using DAX to create calculated columns and measures



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