3 Days | 20768B: Developing SQL Data Models (SSAS)

The 3-days Microsoft 20768B Developing SQL Data Models Certification course is Part 2 of the series of two courses of MCSA 2016: SQL Business Intelligence Development, meant for database professionals who develop and implement multidimensional models and tabular models on Online Analytical Processing (OLAP) cubes by using SQL Server Analysis Services (SSAS).

The SSAS provides data mining functionality by letting you design, create and manage the multiple databases that are aggregated from other data resources, such as relational databases.

This course qualifies you for the exam 70-768: Developing SQL Data Models Certification.

Course Details

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Course Outline

Module 1: Introduction to Business Intelligence and Data Modeling

This module describes key BI concepts and the Microsoft BI product suite.

Lessons

- Business Intelligence Introduction

- Microsoft business intelligence platform

Module 2: Creating Multidimensional Databases

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

Lessons

- Multidimensional analysis Introduction

- Creating data sources and data source views

- Creating a cube

- Overview of cube security

Module 3: Working with Cubes and Dimensions

This module explains how to implement dimensions in a cube.

Lessons

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

Module 4: Working with Measures and Measure Groups

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

Lessons

- Working with measures
- Working with measure groups

Module 5: Introduction to MDX

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

Lessons

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

Module 6: Customizing Cube Functionality

This module explains how to customize a cube.

Lessons

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

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

This module explains how to implement a tabular data model in PowerPivot.

Lessons

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

Module 8: Introduction to Data Analysis Expressions (DAX)

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

Lessons

- Fundamentals of DAX
- Using DAX to create calculated columns and 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

- Validating a data mining model

- Using the data mining add-in for Excel

- Creating a custom data mining solution

- Connecting to and consuming a data mining model

Who Should Attend

This Developing SQL Data Models SSAS training course is intended for database professionals who need to accomplish a Business Intelligence Developer role. They will be required to exhibit hands-on work creating BI solutions Primary responsibilities will include:

- Implementing a data warehouse.

- Enforcing data integrity by using Master Data Services.

- Cleansing data by using Data Quality Services.

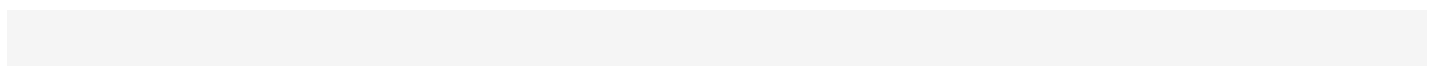- Developing SSIS packages for data extraction, transformation, and loading.

Pre Requisite

This course requires that you meet the following prerequisites:

- Working knowledge of Transact-SQL and Relational Databases.

- Basic knowledge of the Microsoft Windows operating system and its core functionality.

Exams

Developing SQL Data Models Certification [70-768]

Date - Apr 27, 2024