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**Price:** Call  
**Length:** 21 Hours (3 days)

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**Introduction:** 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. This course helps you prepare for the Exam 70-768.

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**Target Student:** The primary audience for this course are database professionals who need to fulfil BI Developer role to create enterprise BI solutions.

Primary 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
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**Prerequisites:** This course requires that you meet the following prerequisites:

- Experience of querying data using Transact-SQL
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**Objectives:** After completing this course, students will be able to:

- Describe the 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

## Course Outline

<p><b>I. Introduction to Business Intelligence and Data Modeling</b></p> <ul style="list-style-type: none"> <li>A. Introduction to Business Intelligence</li> <li>B. The Microsoft business intelligence platform</li> </ul> <p><b>II. Creating Multidimensional Databases</b></p> <ul style="list-style-type: none"> <li>A. Introduction to Multidimensional Analysis</li> <li>B. Data Sources and Data Source Views</li> <li>C. Cubes</li> <li>D. Overview of Cube Security</li> <li>E. Configure SSAS</li> <li>F. Monitoring SSAS</li> </ul> <p><b>III. Working with Cubes and Dimensions</b></p> <ul style="list-style-type: none"> <li>A. Configuring Dimensions</li> <li>B. Defining Attribute Hierarchies</li> <li>C. Implementing Sorting and Grouping Attributes</li> <li>D. Slowly Changing Dimensions</li> </ul> <p><b>IV. Working with Measures and Measure Group</b></p> <ul style="list-style-type: none"> <li>A. Working with Measures</li> <li>B. Working with Measure Groups</li> </ul> <p><b>V. Introduction to MDX</b></p> <ul style="list-style-type: none"> <li>A. MDX fundamentals</li> <li>B. Adding Calculations to a Cube</li> <li>C. Using MDX to Query a Cube</li> </ul>	<p><b>VI. Customizing Cube Functionality</b></p> <ul style="list-style-type: none"> <li>A. Implementing Key Performance Indicators</li> <li>B. Implementing Actions</li> <li>C. Implementing Perspectives</li> <li>D. Implementing Translations</li> </ul> <p><b>VII. Implementing a Tabular Data Model by Using Analysis Services</b></p> <ul style="list-style-type: none"> <li>A. Introduction to Tabular Data Models</li> <li>B. Creating a Tabular Data Model</li> <li>C. Using an Analysis Services Tabular Data Model in an Enterprise BI Solution</li> </ul> <p><b>VIII. Introduction to Data Analysis Expression (DAX)</b></p> <ul style="list-style-type: none"> <li>A. DAX Fundamentals</li> <li>B. Using DAX to Create Calculated Columns and Measures in a Tabular Data Model</li> </ul> <p><b>IX. Performing Predictive Analysis with Data Mining</b></p> <ul style="list-style-type: none"> <li>A. Overview of Data Mining</li> <li>B. Creating a Custom Data Mining Solution</li> <li>C. Validating a Data Mining Model</li> <li>D. Connecting to and Consuming a Data-Mining Model</li> <li>E. Using the Data Mining add-in for Excel</li> </ul>
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