

FS-5020A Analyzing Data with DAX (Duration 2Days)



What will you learn?

The focus of this 2day instructor-led course is on creating data model in PowerPivot, Extending the Data Model, Measures to the advance level and analyzing data over time by applying time intelligence. This course helps you prepare for the **Exam 70-778 & 70-779**.

Who is the Audience?

The primary audience for this course is Business Analysts who need to fulfil Data Analyst or Data Scientist roles to create enterprise reporting and dashboarding with Microsoft PowerBI solutions.

Primary responsibilities will include:

- Providing intelligence and interactive reports, dashboards.
- Mashup data to come out with clean, integrate and consistent data.

What are the Prerequisites?

- Before attending this course, students must have:
- Basic knowledge about relational databases and data warehouse.
- Basic knowledge of querying data using Transact-SQL.
- Basic experience working with Microsoft Excel.
- Experience working with Microsoft PowerBI Desktop App.

What are the Course Objectives?

- After completing this course, students will be able to:
- Modeling data in PowerPivot by Format, Add Hierarchies, Relationships and Groups.
- Extending data model by adding new columns, concatenating, tweaking texts, calculations across tables, cascading column calculations, understanding the most useful functions.
- Injecting some meanings to data model by adding simple measures, complex measures, cross-table measure, filter context and ranking data.
- Analyzing data over time by using simple date calculations, time intelligence, date table, time period comparison and parallel period in time aggregations.

What are the Course Outlines?

Module 1: Creating a Data Model in PowerPivot

This module introduces the data model, data formatting and hierarchies in PowerPivot.

Lessons:

- Introduction to Data Modeling in PowerBI
- Advancing Data Model

Labs:

- Exploring Data Model in PowerPivot.
- Create Relationship between data tables.
- Prepare data with hierarchies.

Module 2: Extending the Data Model

This module describes how to extend the data model one level up by using built-in functions of PowerPivot.

Lessons:

- Calculations in Data Model.
- Column Calculations.
- Built-In Functions.

Labs:

- Share and Transform Data.
- Data Grouping by Value Range.

Module 3: Adding Measures

This module describes filter contexts and how to add measures in the data model.

Lessons:

- Aggregations and Measures
- Filtering data in measures

Labs:

- Calculate Running Total
- Customer Profitability

Module 4: Analyzing Data Over Time

This module describes built-in date functions and how to add time-intelligence to the data model.

Lessons:

- Date Functions in Calculations
- Time Intelligence in Data Model
- Applying Time Intelligence

Labs:

- Sales and Marketing Analysis

About Trainer:



Hamid is SQL Server Data BI Platform Expert with more than 10 years' of professional experience, He is holding Microsoft Certified Master: SQL Server 2008, Microsoft Certified Solutions Master: Charter-Data Platform, Microsoft Data Platform MVP Award and CIW Database Design Specialist Certifications. Being a consultant allows him to work directly with customers to help solve questions regarding database issues for SQL Server and PowerBI. He had trained more than 200 students from Banking, Manufacturing, Insurance and Technology industries in well-known training centers in Malaysia.