Power BI - Transforming data models with DAX

Duration: 1 day
Audience: Pour tous

Who is this training for?

Data analytics professionals and BI experts who want to deepen Microsoft Excel and Power BI data models with DAX to transform data, optimize data models within their organization

Training objectives

- Modify data models using DAX language
- Deepen basic DAX functions

Summary

The goal of this course is to enable advanced users of Microsoft Excel and Microsoft Power BI to use Data Analysis Expression (DAX) to perform transformations and calculations to tailor their datasets for reports and dashboards.

Course outline

Chapter 1 - Confirm the DAX fundamentals

- Use the DAX (Data Analysis eXpression) language
- Discover the differences between Excel and Power BI
- Understand the concepts of DAX context
- Review the calculated measures and columns
- Set up naming conventions
- Use variables

Chapter 2 - Review the main functions

- Manipulate the text
- Set up logical functions
- Use temporal functions

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- Exploit information functions
- Creating Data Tables
- Manipulating Table Structure
- Formatting Blocks of Operations

Chapter 3 - Setting Up Filters and Sorting

- Setting Up a Filter
- Learning to Undo Filters • Applying Calculations with Filters • Following Existing Relationships Between Tables • Understanding How to Set Up Filter Tests

Chapter 4 - Counting with DAX

- Using Counting Functions
- Counting Table Rows
- Using Single Count Functions

Chapter 5 - Working with Loops

- Understanding the Use of Iterative Functions
- Building Complex Iterative Functions
- Creating Measurements with DAX
- Manipulating Filters with the CALCULATE Function
- Working with Time Functions

Chapter 6 - Optimizing the Data Model

- Examining Data Model Performance
- Using Variables to Improve Performance
- Reducing Cardinality

Chapter 7 - Applying the Right Ones

- Use error functions
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Apply the right references

- Define your best practices

Approach and methodology

- Lectures
- Demonstrations
- Guided and individual exercises

Prerequisites

Have access to the Power BI service (Pro License) or equivalent content. Power BI app installed on the desktop or equivalent content.

Recommendations

Have at least completed the Power BI - Building Reports and Dashboards or equivalent content

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