

Power BI DAX



Course Overview

This is an advanced course for people who already have experience developing Power BI reports and want to develop their proficiency using DAX.

DAX allows us to enrich our data model and perform highly sophisticated data analysis, but there is some theory required to master DAX. In this course we delve into key concepts like evaluation context while also introducing best practise like the use of variables.

The course will also cover a wide range of DAX functions including Iterator, Table, Calculate and Calculate Modifier functions, Timeseries Intelligence and Hierarchy functions.

Program Format

This is a one-day program that can be delivered face-to-face or as 2 x 3-hour virtual programs.

Course Objectives

- Understand DAX concepts
- Learn a wide range of DAX functions
- Use tools like Query View & DAX Studio
- Increase confidence creating DAX calculations

Course Outline

DAX and the Data Model

Power BI Options
Create a Data Model
Manage Relationships
DAX Operators

DAX Fundamentals

Create a Fiscal Calendar
ADDCOLUMNS
Understand Variables
Add Comments
DAX Formatter
Date & Text Functions
IF and SWITCH

Measures

Why Measures
Simple Measures
Row vs Filter Context
Create a Measures Table

Iterators

Understand Iterators
SUMX
AVERGEX
RELATED
CONCATENATEX

Table Functions

VALUES
ALL & ALLEXCEPT
SUMMARISE
FILTER

DAX Tools

Query View
DAX Studio
EVALUATE syntax
Performance Analyser

Calculate

Understand CALCULATE
Multiple Criteria
Calculate Modifiers
Calculation Sequence

Time Intelligence

TOTALYTD & DATESYTD
SAMEPERIODLASTYEAR
DATEADD
PARALLELPERIOD

Hierarchy Functions

PATH & PATHCONTAINS
Dynamic RLS

Prerequisites

Attendees will require the following:

- Experience developing Power BI Reports
- Power BI Desktop program
- Two screens (online)

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