

Introduction to DAX



Course Information

Overview

DAX (Data Analysis Expressions) is the native language of Power BI, Power Pivot for Excel, and SSAS Tabular models in Microsoft SQL Server Analysis Services. The training is aimed at users of Power BI, Power Pivot, and at Analysis Services developers that want to learn and become confident users of the DAX language.

The goal of the course is to teach the basic features of the DAX language, providing the knowledge to write formulas for common business scenarios.

The course is a combination of Power Point presentations, Instructor demonstrations, and hands-on activities. During the 2 days, the training will also provide delegate activity labs.

On completing the course attendees will be provided with a set of course reference notes in a pdf format.

Prerequisites

You should be a competent Microsoft Excel user, with experience of writing excel formulas. Attendees do not require any experience of using DAX, but we recommend that you attend our 2-day Microsoft Power BI Introduction course prior to taking this course.

Introduction to DAX

What is DAX
Why do we need DAX in Power BI
Why Learn DAX
The DAX Structure
DAX Formatting

Basic DAX functions

SUM, SUMX
COUNT, COUNTX, DISTINCTCOUNT,
COUNTROWS
AVERAGE, AVERAGEX
MAX, MAXX
MIN, MINX

Logical functions

IF
SWITCH
AND, OR
TRUE, FALSE, NOT
IFERROR

Filter functions

CALCULATE
FILTER
HASONEVALUE
VALUES
ALL, ALLSELECTED, ALLEXCEPT
ISFILTERED

Relationship Functions

RELATED
RELATEDTABLE
USERELATIONSHIP

Date & Time Functions

CALENDAR
CALENDARAUTO
DATE
DATEDIFF
DAY
TODAY
WEEKDAY
WEEKNUM
YEAR



Time-intelligence functions

DATEADD
LASTDATE
SAMEPERIODLASTYEAR
DATESBETWEEN
DATESINPERIOD
TOTALMTD, TOTALQTD, TOTALYTD
DATESMTD, DATESQTD, DATESYTD

Introduction to calculated tables in Power BI Desktop

What are calculated tables
What is a Date Dimension table
Using DAX to create a Date Dimension table

Information Functions

CONTAINS
ISBLANK
ISERROR
ISEVEN
ISINSCOPE
ISLOGICAL

Other useful functions

SUMMARIZE
ROLLUP
DIVIDE
TOPN
FORMAT
RANKX
BLANK

Variables

What is a variable and what is the benefit using variables in complex formulas.

To find out more or book a place on one of our virtual public scheduled courses contact our admin team on 0247 736 0040 or email admin@datacraftsolutionsltd.com.

Multiple delegate booking? Contact the team for a private virtual or on-site course.

