Introduction to DAX 1-Day Workshop

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.

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

Aggregation Functions
Aggregators such as SUM, COUNT, AVERAGE, MAX, MIN
Iterators such as SUMX, COUNTX, AVERAGEX, MAXX, MINX

Logical Functions
Conditional functions such as IF, SWITCH
Logical operators such as AND, OR, TRUE
Error-handling functions such as IFERROR

Filter functions
Context modifiers such as CALCULATE, FILTER
Value and filter checks such as HASONEVALUE, VALUES, ALL, ALLSELECTED, ALLEXCEPT, ISFILTERED

Relationship Functions
Relationship functions such as RELATED, RELATEDTABLE, USERELATIONSHIP

Date & Time Functions
Date generation functions such as CALENDAR, CALENDARAUTO, DATE
Date calculations such as DATEDIFF, DAY, TODAY, WEEKDAY, WEEKNUM, YEAR

Time-intelligence functions

Time-shifting functions such as DATEADD, LASTDATE, SAMEPERIODLASTYEAR

Date range functions such as DATESBETWEEN, DATESINPERIOD

Period-to-date functions such as TOTALMTD, TOTALQTD, TOTALYTD.

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

Information functions such as CONTAINS, ISBLANK, ISERROR, ISINSCOPE.

Other useful functions

Table summarisation functions such as SUMMARIZE, ROLLUP

Ranking functions such as RANKX

Utility functions such as DIVIDE, TOPN, FORMAT, BLANK

Variables

What is a variable and what are the benefits of 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.