

# Software Solutions

## Microsoft Power BI – DAX Data Analysis Expressions

### The Essentials



This course teaches the learner how to get create calculated columns and calculated measures in Power BI using the DAX (Data Analysis Expressions) language. The learner will be creating many calculated columns and measures using a variety of functions including 'X' aggregator, Date and Time, Filter, Informational, Logical, Text, Scalar, and Time Intelligence functions, detailed in the course content below.

A general knowledge of Power BI is a pre-requisite to this course, as well as general Windows, mouse and keyboard skills. Preferably learners will have completed the Software Solutions PowerBIGetAndTransformData-Level1 and the Software Solutions PowerBIReportsAndVisualisations-Level1 courses.

#### COURSE CONTENT

#### WHAT IS DAX? And WHY DAX?

#### WHAT IS DAX USED FOR?

<input type="checkbox"/> CALCULATED COLUMNS	<input type="checkbox"/> CALCULATED MEASURES
<input type="checkbox"/> DAX CALCULATION TYPES	<input type="checkbox"/> COLUMNS VERSUS MEASURES
<input type="checkbox"/> AMPERSAND AND OPERATOR	<input type="checkbox"/> CONCATENATE FUNCTION AND AMPERSAND
<input type="checkbox"/> COMBINEVALUES FUNCTION	<input type="checkbox"/> UPPER AND LOWER FUNCTIONS
<input type="checkbox"/> LEFT, MID AND FIND FUNCTIONS	<input type="checkbox"/> ROW CONTEXT CONCEPT
<input type="checkbox"/> IF FUNCTION - CONDITIONAL LOGIC	<input type="checkbox"/> FORMAT FUNCTION
<input type="checkbox"/> FIXED FUNCTION	<input type="checkbox"/> RELATED FUNCTION
<input type="checkbox"/> RELATED	<input type="checkbox"/> RELATEDTABLE
<input type="checkbox"/> REQUIREMENTS	<input type="checkbox"/> COUNTROWS FUNCTION
<input type="checkbox"/> RELATEDTABLE FUNCTION	<input type="checkbox"/> RENAME TABLES
<input type="checkbox"/> SWITCH FUNCTION	<input type="checkbox"/> AGGREGATOR OR 'X' ITERATOR FUNCTIONS
<input type="checkbox"/> MAX FUNCTION	<input type="checkbox"/> MAXX FUNCTION
<input type="checkbox"/> SUMX FUNCTION	<input type="checkbox"/> COUNTX FUNCTION
<input type="checkbox"/> DATEDIFF, IF, TODAY AND FORMAT FUNCTIONS	<input type="checkbox"/> CREATE A COLUMNS FOLDER

#### CALCULATED MEASURES

<input type="checkbox"/> SUM FUNCTION	<input type="checkbox"/> REUSE EXISTING MEASURES
<input type="checkbox"/> MOVING MEASURES	<input type="checkbox"/> DIVIDE FUNCTION
<input type="checkbox"/> FILTER CONTEXT	<input type="checkbox"/> CALENDARAUTO FUNCTION
<input type="checkbox"/> CALENDAR FUNCTION	<input type="checkbox"/> DAY FUNCTION
<input type="checkbox"/> EDATE FUNCTION	<input type="checkbox"/> EOMONTH FUNCTION
<input type="checkbox"/> ENDOFMONTH FUNCTION	<input type="checkbox"/> MONTH FUNCTION
<input type="checkbox"/> CALCULATE FUNCTION	<input type="checkbox"/> SYNTAX
<input type="checkbox"/> ALL FUNCTION	<input type="checkbox"/> CALCULATE & ALL FUNCTIONS
<input type="checkbox"/> IF, ISBLANK, CALCULATE & ALL FUNCTIONS COMBINED	<input type="checkbox"/> REMOVEFILTERS FUNCTION
<input type="checkbox"/> RATIOS AND PERCENTAGES	<input type="checkbox"/> SHOW VALUES AS OR MEASURES
<input type="checkbox"/> OR PIPE	<input type="checkbox"/> OR FUNCTION
<input type="checkbox"/> IN FUNCTION	<input type="checkbox"/> MORE THAN ONE FILTER IN A CALCULATE EXPRESSION

#### TIME INTELLIGENCE IN DAX

<input type="checkbox"/> COMPARING DATA OVER TIME	<input type="checkbox"/> REQUIREMENTS
<input type="checkbox"/> TOTALYTD FUNCTION	<input type="checkbox"/> DRILL DOWN AND DRILL UP
<input type="checkbox"/> FISCAL YTD	<input type="checkbox"/> TOTALYTD FUNCTION FILTER PARAMETER
<input type="checkbox"/> SAMEPERIODLASTYEAR FUNCTION	<input type="checkbox"/>

#### SEMI-ADDITIVE MEASURES

<input type="checkbox"/> LASTDATE FUNCTION	<input type="checkbox"/> LASTNONBLANK FUNCTION
<input type="checkbox"/> FIRSTDATE FUNCTION	<input type="checkbox"/> FIRSTNONBLANK FUNCTION
<input type="checkbox"/> OPENINGBALANCEMONTH FUNCTION	<input type="checkbox"/> PARALLELPERIOD FUNCTION

#### TOP FIVE DAX TIPS