Microsoft Power BI Dax Level 1 Course Outline

Duration: 2 Days

Unlock the power of your data with the Microsoft Power BI DAX training course. Designed for beginners, this course provides a solid foundation in Data Analysis Expressions (DAX), helping you create dynamic calculations and gain deeper insights from your data. Whether you're new to DAX or looking to enhance your Power BI skills, this hands-on course will teach you how to write and apply basic DAX formulas effectively.

What You'll Learn

- Understand the fundamentals of DAX, including data types, operators, and calculations.

- Explore evaluation contexts, including row and filter contexts, and how they impact calculations.

- Master table functions like FILTER, ALL, and VALUES to create dynamic data models.

- Learn to use CALCULATE and CALCULATETABLE for advanced filtering and data manipulation.

- Apply DAX to real-world scenarios, such as time intelligence, cumulative totals, and moving averages.

Course Prerequisites

This course is designed for individuals with foundational Power BI knowledge who are ready to explore DAX. To make the most of your training, we recommend:

- **Basic Power BI skills**: Familiarity with creating reports, importing data, and using visuals.

- **Intermediate Excel experience**: Understanding of functions like SUM, IF, and VLOOKUP, and working with tables.

- **Analytical mindset**: An interest in exploring data relationships and building calculations.

Full Course Outline

What Is DAX?

DAX in the world of Excel
Cells vs tables
Iterators - what are they?

Introducing DAX

Understanding DAX calculations
DAX data types
DAX operators
Calculated columns vs measures
Variables
Error handling in DAX
Formatting DAX code
Common DAX functions

Basic Table Functions

What are table functions?
EVALUATE syntax
Table expressions
Understanding FILTER
Understanding ALL, ALLEXCEPT, and ALLNOBLANKROW
Understanding VALUES and DISTINCT

Understanding Evaluation Contexts

Introduction to evaluation contexts
Understanding the row context
Using SUM in a calculated column
Using columns in a measure
Row context with iterators - EARLIER function
Working with many tables
Row contexts and relationships
Filter context with relationships
Introducing VALUES
Introducing ISFILTERED and ISCROSSFILTERED

CALCULATE and CALCULATETABLE

Understanding CALCULATE
Understanding the filter context
CALCULATE examples
Filtering a single column
Filtering with complex conditions
Using CALCULATETABLE
What are circular dependencies?
CALCULATE rules
Introducing ALLSELECTED
Understanding USERELATIONSHIP

DAX Examples

Finding ratios and percentages

Cumulative totals

Using ABC (Pareto) classification

Finding sales per day and working day

Differences in working days

Static moving averages

Time Intelligence Calculations

What is time intelligence?

Building a date table

Handling multiple relationships to the date table

Aggregating overtime (year-to-date and quarter-to-date)

Opening and closing balances

Training Benefits

Comprehensive training materials: Access detailed notes and exercise files for future reference.

Post-training support: Enjoy three months of assistance via email, phone, or screen sharing for follow-up questions.

Certificate of completion: Celebrate your achievement with a certificate that recognises your effort and skills.

Practical learning environment: Experience hands-on training designed to build confidence and inspire trust.