2 – DAY
INTRODUCTION TO DAX FUNCTIONS FOR EXCEL USERS

Introduction

Great reports are built on great data models. In this course, learn how to create relationships, create measures, use DAX and all the other skills you need to build a data model that ensures your reports are top-notch! This course has been updated to the latest Power BI interface so you will be using the latest version available.

Course Objectives

By the end of this course, you will be able to:

- Have a COMPREHENSIVE understanding of creating data models and developing DAX formulas in Microsoft Power BI
- Create calculated FIELDS and MEASURES using DAX in Power BI
- Perform SOPHISTICATED calculations such as Time Intelligence, Filtered Data and Creating Calculated Tables
- Create RELATIONSHIPS between tables of data

Methodology

REQUIREMENTS

- You will require Power BI desktop and access to the Power BI Service on the Internet
- You should be able to work with data in Excel and do basic reporting
- Download the Power BI Desktop app which is available free from Microsoft for Windows

PREREQUISITES

- Excel 2016 Professional level and above, 2019, 365, 2021

Who Should Attend?

This course is for intermediate/ advanced of Excel user that needs to be able to slice and dice data, measure important values and to derive useful information to assist them in making business decisions.

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Course Outline

MODULE 1: INTRODUCTION TO THE COURSE

- Introduction to the Course

MODULE 2: OVERVIEW OF THE POWER BI DATA MODEL

- Introduction to Overview of the Data Model
- Overview of the Data Model

MODULE 3: CREATING CALCULATED COLUMNS

- Introduction Calculated Columns
- What is a Calculated Column?
- What is DAX?
- Practical Activity - Calculated Columns
- Creating Calculated Columns of Date Fields
- Practical Activity - Calculated Columns with Date Fields
- Weekday and Weeknum Formulas
- Formatting Date Names
- Practical Activity - Formatted Date Names
- Using a Date Master Table in the Data Model
- Practical Activity - Adding a Date Table to the Data Model
- IF Function
- Switch Function

MODULE 4: CREATING POWER BI MEASURES

- Introduction to the Measures Section
- What is a Measure?
- Creating Measures
- Practical Activity - Creating Measures
- Practical Activity - Measures
- Using the = Calculate Formula
- Practical Activity -=Calculate Formula
- The All and AllExcept Function

MODULE 5: TIME INTELLIGENCE FUNCTIONS

- Time Intelligence - Part 1
- Time Intelligence - Part 2
- Time Intelligence - Part 3

MODULE 6: ADDITIONAL MEASURE CALCULATIONS

- Using the SUMX function
- Example of MAXX - Find the Highest Sales Day
- Example MAXX Functions using Values function
- RANKX Function
- Customer Segmentation - SWITCH Function
- What If Parameters

MODULE 7: VIRTUAL TABLES

- Introduction to Virtual Tables
- Creating Virtual Tables
- Customer Segmentation
- Performance Analyser
- Practical Activity - Virtual Tables
- Completed Practical Activity - Part 1
- Completed Practical Activity - Part 2

MODULE 8: CREATING RELATIONSHIPS IN POWER BI/ EXCEL BI

- Introduction to the Relationships Section
- Download the Training Data Files
- Relationships between Tables
- Relationship Calculations
- USERELATIONSHIP Function
- Practical Activity - Create Relationships and Calculations

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