

POWER BI – DATA MODELLING WITH DAX



Corporate IT Course

LEARNING OUTCOMES

- Build and optimise data models that connect multiple sources, manage relationships, and apply DAX filter context to deliver accurate, insightful analysis.
- Create advanced DAX calculations using aggregate, logical, and filter-based functions to transform raw data into actionable intelligence.
- Design and manage dynamic measures and calculated columns with clear formatting and structure, improving report performance and readability.
- Leverage powerful DAX tools such as CALCULATE, ALL, SUMX, and RANKX to perform sophisticated analysis, comparisons, and scenario modelling.
- Utilise time intelligence functions to analyse performance trends, calculate cumulative totals, and create rich, time-based visualisations that reveal deeper business insights.

COURSE OVERVIEW

Take your Power BI skills to the next level with DAX (Data Analysis Expressions) — the language that transforms data models into powerful analytical tools. Learn how to create advanced calculations, perform time-based analysis, and uncover insights beyond standard visuals. Ideal for experienced Power BI users ready to go deeper, this course builds on your existing knowledge to help you analyse data with greater precision and impact.

TOPICS COVERED IN THIS COURSE

Building a Strong Data Model

Learn how to connect data, manage relationships, and understand DAX filter context to create a reliable and efficient Power BI data model.

DAX Aggregate Functions

Master key DAX functions like SUM, COUNT, and DISTINCTCOUNT to perform essential calculations and display insights clearly in your reports.

Managing and Editing Measures

Format, rename, and document your measures effectively using quick measures and best practices to keep your DAX models organised and easy to maintain.

Calculated Columns and Measures

Understand when to use calculated columns versus measures, apply operators, and use DIVIDE for accurate percentage and ratio calculations.

Logical and Filter Functions

Use DAX logical functions like IF, OR, and FIND to create flexible, condition-based calculations and refine data for targeted analysis.

Advanced Filtering with CALCULATE

Harness the power of CALCULATE to modify filter contexts, apply multiple filters, and perform advanced, multi-table analytics.

Controlling Context with ALL

Use ALL and ALLSELECTED to override filters, calculate percentages, and compare datasets dynamically across reports and visuals.

Iterators and Time Intelligence

Apply iterator functions like SUMX, AVERAGEX, and RANKX for row-level analysis, and leverage time intelligence functions to track trends and cumulative performance over time.