

# Introduction to Power BI DAX

## Course Contents

### **Getting started with DAX**

- What is DAX?
- Basics of DAX syntax
- Creating a calculated column
- Creating a calculated measure
- Creating a calculated table
- Differences in evaluation context
- Rules of evaluation
- Working with variables
- Commenting your code
- Testing your code

### **Performing basic calculations**

- Implicit measures
- Adding quick measures
- Doing basic math
- Using logic in your calculations
- Aggregating and summarizing data
- Working with DAX data types

### **Working with context in the data model**

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- Data modeling basics
- Introduction to dimensional modeling
- Relationships and their effect on the evaluation context
- Getting data from other tables using RELATED and RELATEDTABLE
- Modifying the context using CALCULATE
- Looking up data without using relationships

### **Performing more advanced calculations**

- Handling errors gracefully
- Using DAX iterator functions
- Using table manipulation functions
- Troubleshooting your calculations using the Performance Analyzer and DAX Studio

### **Working with time**

- Performing date calculations
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- Generating a date table with the CALENDAR() function
- Defining custom operating periods
- YTD, QTD, and MTD calculations
- Custom to-date calculations
- Finding year-over-year change
- Finding moving averages

### **Enhancing the user experience**

- Controlling visibility of your measures
- Using What-if parameters
- Adding banding
- Using DAX to provide row-level security