

# PL-300: Microsoft Power BI, Part 4 of 6: DAX

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**Meet the expert:** Nikolai is a mathematician and works as a data scientist in a large German company. He is focused mainly on gaining insights from data and creating a positive impact with this knowledge.

**Prerequisites:** Experience with Microsoft Excel, pivot tables and power pivot modelling is helpful.

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**Course description:** Data Science is a growing field, this course explores Data Analysis Expressions(DAX), the language developed to interact with data.

Data Analysts are responsible for designing and building scalable data models, cleaning and transforming data, and enabling advanced analytic capabilities that provide meaningful business value through easy-to-comprehend data visualizations. The PL-300 Exam validates this expertise.

## Course outline:

### Welcome to DAX

- Introduction
- Welcome to DAX
- Let's look at our data
- Measures vs. Calculated Columns
- Summary

- DATESBETWEEN
- Summary

### DAX Advanced Topics

- Introduction
- Logical Operators
- Commenting and Formatting
- Variables
- Quickmeasures use Intelligently
- Summary

### CALENDARAUTO

- Introduction
- CALENDARAUTO
- CALENDAR
- How to create a complete date table
- Key Measures Table
- Summary

### Aggregation functions

- Introduction
- Aggregation functions
- COUNT
- SUMX - How does it work
- Summary

### DAX Calculate

- Introduction
- CALCULATE Basics
- Changing the Context with FILTER
- ALL
- ALLSELECTED
- ALLEXCEPT
- Summary

### DAX TimeIntelligence

- Introduction
- TimeIntelligence & DATEADD
- Year-to-Date & Month-to-Date
- TOTALYTD VS DATESYTD