



DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-022

Advanced Power BI: DAX and Data Modelling

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Course content

Why Attend

Many Power BI users can build visuals but struggle with data models and DAX, which limits accuracy and performance. Advanced skills unlock reliable, scalable reports.

This Aractech course covers star schema modelling, relationships, DAX fundamentals and evaluation context, time intelligence, advanced calculations, performance optimisation, row-level security and deployment best practice. Participants build an advanced financial and operational model.

Course Methodology

- Hands-on labs
- Modelling workshops
- DAX exercises
- Performance tuning practice
- Capstone model

Course Objectives

- Design star schema data models
- Manage relationships and model properties
- Write DAX measures with correct context
- Apply time intelligence functions
- Optimise model and report performance
- Implement security and deployment best practice

Target Audience

- Power BI developers
- BI analysts

Course content

- Finance and FP&A analysts
- Data analysts

Course outline

Detailed course outline

Day-by-day outline for Advanced Power BI: DAX and Data Modelling.

Day 1 - Data Modelling

- 09:00-09:34 | Star schema
- 09:34-10:08 | Fact and dimension tables
- 10:08-10:42 | Relationships
- 10:42-11:00 | Cardinality
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Cardinality (continued)
- 11:46-12:53 | Model best practice
- 12:53-14:00 | Lab: Building a model

Day 2 - DAX Fundamentals

- 09:00-09:39 | Measures versus columns
- 09:39-10:18 | Evaluation context
- 10:18-10:57 | CALCULATE
- 10:57-11:00 | Iterators
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Iterators (continued)
- 12:05-12:43 | Variables
- 12:43-14:00 | Lab: DAX measures

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Day 3 - Time Intelligence

- 09:00-09:45 | Date tables
- 09:45-10:30 | YTD and prior period
- 10:30-11:00 | Rolling averages
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Rolling averages (continued)
- 11:45-12:30 | Custom calendars
- 12:30-14:00 | Lab: Time intelligence

Day 4 - Advanced Calculations and Performance

- 09:00-09:39 | Advanced DAX patterns
- 09:39-10:18 | Ranking and segmentation
- 10:18-10:57 | Performance analyser
- 10:57-11:00 | Optimisation
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Optimisation (continued)
- 12:05-12:43 | Aggregations
- 12:43-14:00 | Lab: Optimisation

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Day 5 - Security and Deployment

- 09:00-09:54 | Row-level security
- 09:54-10:48 | Workspaces
- 10:48-11:00 | Deployment pipelines
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Deployment pipelines (continued)
- 12:12-13:06 | Governance
- 13:06-14:00 | Capstone: Advanced model

Seminar dates

Available seminar dates

Live dates and pricing for Advanced Power BI: DAX and Data Modelling generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Vienna	Classroom	€3,225
7 - 11 December 2026	Barcelona	Classroom	€2,815
11 - 15 January 2027	Rome	Classroom	€3,460
8 - 12 February 2027	Munich	Classroom	€3,225
8 - 12 March 2027	Amsterdam	Classroom	€2,830
12 - 16 April 2027	London	Classroom	€2,315
10 - 14 May 2027	Istanbul	Classroom	€1,978
14 - 18 June 2027	Vienna	Classroom	€3,225
12 - 16 July 2027	Barcelona	Classroom	€2,815
9 - 13 August 2027	Rome	Classroom	€3,460

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