Power Pivot for Excel: One-Day Workshop

Lesson 1: Power Pivot and Modern Excel

Lesson 2: How relational models work

Lesson 3: From PivotTables to “Power” PivotTables

Lesson 4: Up and running with DAX

Lesson 5: Intermediate DAX

Learning Objectives

- Student can contextualize Power Pivot in the Microsoft BI stack
- Student can evaluate relational models for best practices in modeling
- Student can perform row-wise data cleaning
- Student can load a PivotTable report and add calculated fields and measures
- Student can write and modify measures with DAX
- Student can perform intermediate data analysis operations with DAX

Lesson 1: Power Pivot and Modern Excel
Objective: Student can contextual Power Pivot in the Microsoft BI stack
Description:

- Modern Excel and the “Power Platform”
- Power Query, Pivot, View: Oh my!
- DAX & M, Query & Pivot

Assets needed: None
Time: 25 minutes

Lesson 2: How relational models work
Objective: Student can evaluate relational models for best practices in modeling
Description:

- A relational model of data
- Database normalization
- From lookups from joins
- Table relationships & cardinality
- Filter directions
- Hierarchies

Exercises: Inspect a data model
Assets needed: Employee database
Time: 90 minutes

Lesson 3: From PivotTables to “Power” PivotTables
Objective: Student can perform row-wise data cleaning
Description:

- Importing data & creating models
- String and date functions
- Conditional logic
- Implicit & explicit measures
- Creating PivotTable reports

Exercises: Build a data model & PivotTable report
Assets needed: Employee database
Time: 120 minutes

Lesson 4: Up and running with DAX
Objective: Student can write and modify measures with DAX
Description:

- Counting and mathematics functions
- Conditional logic functions
- Filter functions
- Iterator functions
- Sorting & aggregation

Exercises: Drills
Assets needed: Employee database
Time: 120 minutes

Lesson 5: Intermediate DAX
Objective: Student can perform intermediate data analysis operations with DAX
Description:

- Time intelligence
- Dependent measures
- DAX Studio
- Creating Power View reports

Exercises: Drills
Assets needed: E-commerce database
Time: 90 minutes