

# All about Calculation Groups

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# About: Michiel Rozema



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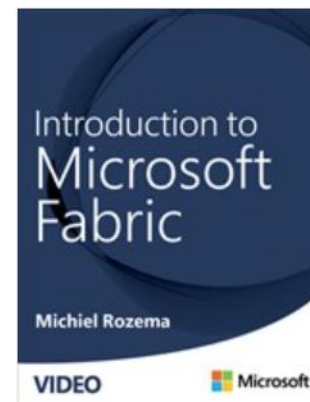
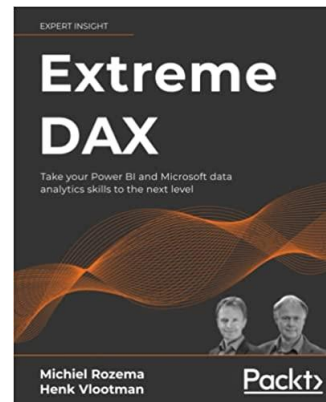
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# Outline

- Understand Calculation Groups
- Conditional Calculation Items
- Drill-Through Interaction



# Understand Calculation Groups

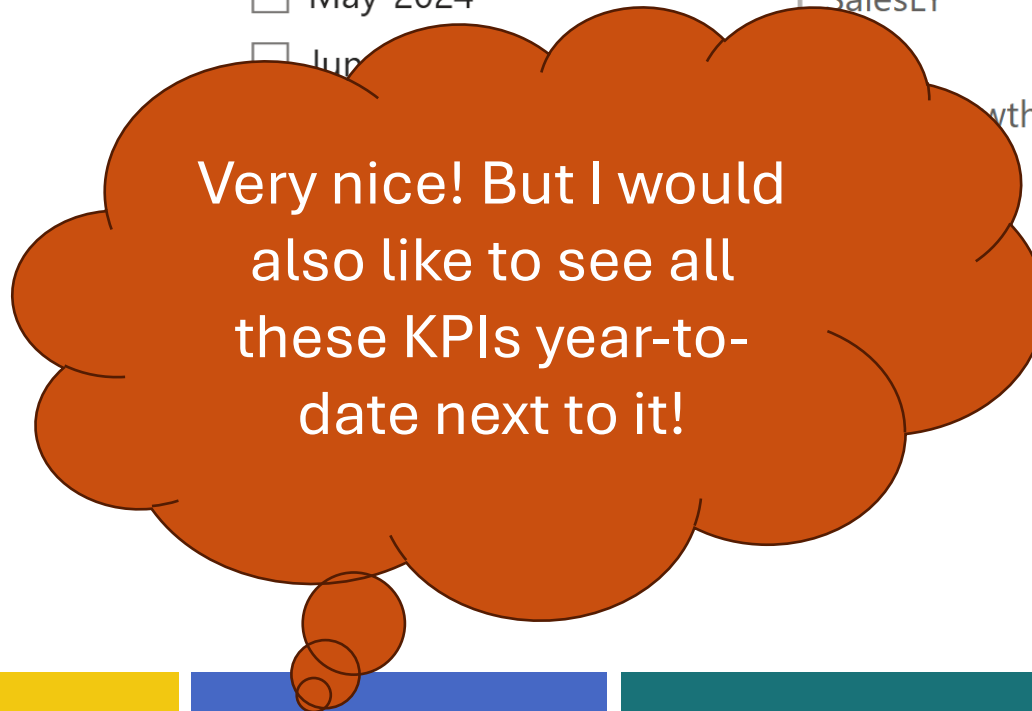
# The case for calculation groups

Often, the same DAX code is reused multiple times

Calculation groups enables reuse of DAX code

- Groups of **calculation items**

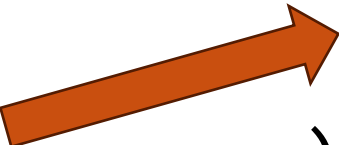
Year-Month		
<input type="checkbox"/> Mar-2024	1.929.764	851.401
	Sales	Quantity
<input type="checkbox"/> Apr-2024	1.903.861	90.411
<input type="checkbox"/> May-2024	SalesLY	Transactions
<input type="checkbox"/> Jun		2,27
	with %	Avg Price



# About calculation items

- Each calculation item is a DAX formula.
- Each calculation item corresponds to a row in the calculation group table.
  - Filtering the table selects the calculation item to apply
  - When this happens, measures are wrapped in the item's DAX formula through the **SELECTEDMEASURE** function.

Year-to-date =  
`CALCULATE(  
    SELECTEDMEASURE(),  
    DATESYTD('Calendar'[Date])  
)`



`CALCULATE(  
    [Sales]  
    DATESYTD('Calendar'[Date])  
)`



# Using multiple calculation groups

- It is possible to have multiple active calculation groups.
- In this case, the order in which the calculations are done is relevant.
- Therefore, the *precedence* of a calculation group can be set.



" SO, WHO WOULD YOU LIKE ME TO CALL FIRST, DEAR, THE PLUMBER OR THE EXTERMINATOR? "

# Dynamic formatting

- By default, the calculation item uses the formatting of the selected measure.
- This can be changed by selecting a **dynamic format string**.
- Each calculation item can have its own format
  - Note that this is a DAX expression!
  - A format string can be based on the selected measure's format using the **SELECTEDMEASUREFORMATSTRING** function.

# DEMO



# Conditional Calculation Items

# A calculation item is a filter

- It acts on *every* measure in scope – no exceptions.
- It is included in interactions as well, like cross-visual interaction.
- So, we need a way to *exclude* measures.



# DEMO



# Drill-Through Interaction

# Drill-Through Interaction

- Suppose you have an overview page where the user can choose between different views: per month, year-to-date, etc.
- And a drill-through page to look at the specifics, but here you want to see all the details
- So, a drill-through page with *Keepallfilters-except-the-Calculation-Item-filter*
- How to solve this?



# DEMO



# A big thank you to our *amazing partners*

**sogeti**  
Part of Capgemini

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**plainwater**  
de kracht van heldere data

**iq̄bs**

**KASPAROV  
FINANCE & BI**

**Kimura**

**S Sifters**

**creates.**

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**Power BI  
Connector** by DAVISTA

**Quanto**  
collective analytics

**Thanks**

## Session Feedback



## Event Feedback

