POWER BI: VISUAL CALCULATIONS



PREVIEW FEATURE

Visual Calculations are currently a preview feature.

Enable them from your Options window.

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	Options	
\bowtie	GLOBAL Data Load Usage Data Diagnostics Preview features Save and Recover Report settings Copilot (preview)	 Connect to external semantic models shared with me Learn more Share feedback ✓ Modern visual tooltips Learn more Share feedback ✓ Save to OneDrive and SharePoint Learn more ✓ Share to OneDrive and SharePoint Learn more ☐ Enhanced publish dialogs Learn more ☐ Power BI Project (.pbip) save option Learn more ☐ Store semantic model using TMDL format Learn more ✓ New card visual Learn more
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		OK

SIMPLE DAX

Create calculated column style calculations within the visual.

These calculations execute fast, are simple, and exist only in the visual (not in the model).

$\times \checkmark f_{x}$	1 Revenue per	Sale = [Total	Revenue] / [Count
Region	Total Revenue	Count of Sales	Revenue per Sale
East	€ 99,635	1,803	55.26
North East	€ 87,038	1,280	68.00
North West	€ 121,206	1,971	61.49
South	€ 134,391	1,827	73.56
West	€ 119,962	2,139	56.08
Total	€ 562,233	9,020	62.33

CALCULATION TEMPLATES

Calculation templates are provided for common calculations such as running totals, percent of totals, and moving average.

Just fill in the provided placeholders like in the 'Versus Previous' template below.

XV	1 Versus previous = [Field] - PREVIOUS([Field])				
Month N	Running sum on				
Jan	Moving average				
Feb	Percent of parent				
Mar	1ar Percent of grand total				
Apr Average of children					
May	lay				
Jun	Versus previous				
Jul	Versus next				
Aug	Versus first				
Sep	\/				
Oct	Versus last				
Nov	€ 17,603				
Dec	€ 26,417				
Total	€ 562,233				

PERCENT VARIANCE

By adding familiar DAX such as DIVIDE, a percent variance to previous row calculation is done.

At present, there is no an option to format the values, except FORMAT which converts the value to text.

			EVIOUS([Total Revenue]), nue])	
Month Name	Total Revenue	Versus previous		
Jan	€ 32,367			
Feb	€ 28,067	-0.13		
Mar	€ 49,946	0.78		
Apr	€ 42,529	-0.15		
May	€ 48,536	0.14		
Jun	€ 64,587	0.33		
Jul	€ 63,576	-0.02		
Aug	€ 65,478	0.03		
Sep	€ 83,824	0.28		
Oct	€ 39,303	-0.53		
Nov	€ 17,603	-0.55		
Dec	€ 26,417	0.50		
Total	€ 562,233			

VAR AND RETURN

You can create variable to make complex formulas more easy to digest and calculate faster.

FORMAT is used to format the previous result as a percent, in this example.

```
Versus previous =
                   VAR MonthPercent =
                           [Total Revenue] - PREVIOUS([Total Revenue]),
                           PREVIOUS([Total Revenue])
                       FORMAT(MonthPercent, "0%")
Month Name Total Revenue Versus previous
Jan
                   € 32,367
Feb
                                       -13%
                   € 28,067
Mar
                   € 49.946
                                       78%
Apr
                   € 42,529
                                       -15%
                   € 48,536
                                       14%
May
                                       33%
Jun
                   € 64,587
Jul
                   € 63,576
                                       -2%
                                        3%
Aug
                   € 65,478
Sep
                   € 83.824
                                       28%
Oct
                   € 39,303
                                      -53%
                                      -55%
Nov
                   € 17,603
                   € 26,417
                                       50%
Dec
Total
                 € 562,233
```

USING IN TOOLTIPS

Although constrained to the visual, we are <u>not</u> just talking tables and columns here.

In this example, a line chart is the visual, and the calculation has been used for the Tooltip.



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