

TIPS & TRICKS (#36-40)



"Did you know" series Part 1

Smart ways creating and manage data items in SAS Visual Analytics

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Did you know – Part 1

Smart ways creating and manage data items in SAS Visual Analytics

Ahh, I didn't know you could create hierarchies using the crosstab object ⓒ

Smart data item creation and management

- Create calculated items on the fly
- Hierarchies
- Smart way to create parameters
- Setting attributes on data items
- Re-use calculated data items



Did you know – Part 1

Smart ways creating and manage data items in SAS Visual Analytics

	D	ata		:
Data	I	NSIGHT_TOY5_DEMO_\	/IYA 🔻	B
∕∕ Objects	2) Filter		
Q	-	- New data item		
Sug	Å	Hierarchy		
1	M	Custom category		
Ðu		Calculated item		
	۲	Geography item		
	x	Parameter		
1.1	£∎	Interaction effect		
	2	Spline effect	9	
	2	Partition		

When we want to create new data items, we normally start our journey by using the built in "New data item" feature.

The main purpose for this presentation is to show how you can create and manage data items in a more efficient way.



Tips & Tricks #36-39

Did you know...



Take advantage of the build in quick calculation feature and create very complex calculations with just a few clicks

#37 - Create hierarchies on the fly

How to create hierarchies using the data panel only and the crosstab



#38 - Tired of creating wrong defined parameters This might help you to create more correct defined parameters



#39 - Setting attributes on data items

Setting attributes can be time consuming, but this little tip can speed up things for you

#40 - Reuse calculated data items

Using SAS Visual Analytics Data Views makes it possible to re-use calculated data items, hierarchies, parameters etc.



Take advantage of the build in quick calculation feature and create very complex calculations with just a few clicks





This is an example of a VA expression calculating product sale difference in % from previous year. Imagine creating this expression with just a few clicks ⁽²⁾

RelativePeriod	_Sum_ Product Sale _IgnoreAllTimeFra Transaction Year _Inferred_ 0 Full_ No selection	- RelativePeriod	_Sum_ ▼ Product Sale _IgnoreAllTimeFra ▼ Transaction Year ▼ _Inferred_ ▼ ✓ −1 _Full_ ▼ No selection ▼) / Abs (RelativePeriod	_Sum_ Product Sale _IgnoreAllTimeFra Transaction Year Transaction Year _Inferred_ ~ _Inferred_ V _No selection

Take advantage of the build in quick calculation feature and create very complex calculations with just a few clicks

Did you know that you can right-click on a measure and have access to pre-defined calculations?

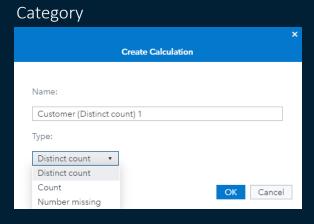
Perfect for creating advanced calculations with just a few clicks ☺ - a very good starting point to get started...

Name: Age (Cumulative total) 1 Type:	
Cumulative total Cumulative total Data suppression Difference from previous parallel period Difference from previous period Percent difference from previous parallel period	Cancel
Percent difference from previous period Percent of total - Sum Period to date Moving average Year over year growth Year to date Year to date growth	



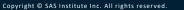
Take advantage of the build in quick calculation feature and create very complex calculations with just a few clicks

Different calculation types depending on what data item type you have selected:



Measure

		×
	Create Calculation	
1	Name:	
Γ	Product Sale (Cumulative total) 1	
٦	Туре:	
	Cumulative total	
	Cumulative total	
	Data suppression	incel
	Difference from previous parallel period	
	Difference from previous period	
	Percent difference from previous parallel period	
	Percent difference from previous period	
	Percent of total - Sum	
	Period to date	
	Moving average	
	Year over year growth	
	Year to date	
	Year to date growth	





Take advantage of the build in quick calculation feature and create very complex calculations with just a few clicks

Using the Crosstab object will also provide a possibility to create quick calculations 🙂 Just right-click on specific column (i.e. Product Sale) and select "Create and add calculation..."

	Create and Add Calculation			
Facility Continent	Facility Country	Product Sale	Product Cost of Sale	
	Egypt	207747		Name:
Africa	Morocco	239816		
Airica	Nigeria	Sort	>	Product Sale (Percent of column total - Sum) 1
	South Africa	Replace data	>	Type:
	China	Remove data		Percent of column total - Sum 🔻
	India	Kentove data		Percent of column total - Sum
	Indonesia	Create and add calcu	ulation	Percent of column subtotal - Sum OK Cancel
	Israel	Add cell graph	>	
Asia	Japan	Indent		98184
	Russia		archy to rows	157324
	Saudi Arabia	Create and add hierarchy to rows		48643
	Singapore	Show totals		51072
	South Korea	Show subtotals		51288

Special THANKS to Torben Skov finding this nice little feature 🙂

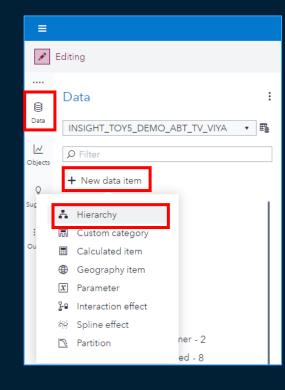


How to create hierarchies using the data panel only and the crosstab





How to create hierarchies using the data panel only and the crosstab



Normally when we create hierarchies, we use the built in "New data item" feature to define our hierarchies.

Are there any other ways (or smarter ways) to create hierarchies in VA?

Yes, there are 🕲





How to create hierarchies using the data panel only and the crosstab

🗔 Order - 112K	
厛 Product - 895K	.
励 Product Brand - 2	× .
M Product Line - 8	Add to selected object
😡 Product Make - 71	Add to current page
😡 Product Style - 335	Add to new page
😡 Returning Customer - 2	Explain >
🖬 Sales Rep - 406	Predict >
📩 Transaction Date - 3,4K	Select >
🛅 Transaction Month - 156	Hide
📩 Transaction Weekday - 5	Duplicate
🛅 Transaction Year - 13	
ភ្ជា Unit - 80	New aggregated data
ត្រា Unit Status - 1	New hierarchy
Re Value Label - 1	New interaction effect >

Why not use the right data panel, select the data items you want to be included in your hierarchy and then just right-click on them and select "New hierarchy" ^(C)

Please Note: The order of data items selected are also representing the order of your levels in the hierarchy!





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How to create hierarchies using the data panel only and the crosstab

A smart way to create date hierarchies

M Facility Region - 42	Add to selected object
M Order - 112K	Add to current page
R Product - 895K	Add to new page
M Product Brand - 2	Add as a report control
M Product Line - 8	Add as a page control
M Product Make - 71	Explain
Product Style - 335	Predict
Returning Customer - 2	
🕅 Sales Rep - 406	Select
📩 Transaction Date - 3,4K	Hide
🛅 Transaction Month - 156	Duplicate
📩 Transaction Weekday - 5	Format
🛅 Transaction Year - 13	- Connac
ភ្ញា Unit - 80	New aggregated data
😡 Unit Status - 1	New date hierarchy
🕞 Value Label - 1	Set as unique row identifier

Right-click on a date column/data item in the right data panel and select "New date hierarchy" and vola...

A date hierarchy is created with Year, Quarter, Month and Day



How to create hierarchies using the data panel only and the crosstab

The crosstab can also be used to create hierarchies (right-click in your category section of your crosstab and select "Create and add hierarchy to rows)

Product Bran	d 🔺 Product Line	▲ Pre	oduct Make 🔺 🛛	Product Style 🔺	Product Sale	Product Cost of Sale
			Black	Mixed	47 115	43 687
			Blue N	lixed	42 139	39 054
			Gold M	Aixed	33 062	30 636
			Green	Mixed	34 311	31 805
			Sort	>	31 181	28 865
		Party E	Replace data	>	39 494	36 592
			Remove data	>	44 527	41 268
					37 098	34 347
			Indent Create and add hierarchy to row		36 367	33 677
				y to rows	32 466	30 104
			Show totals		34 810	32 260
Novelty			Show subtotals		21 605	20 228
	Bead		Use abbreviated numerio	cal value	17 543	16 436
					18 643	17 448
			Show object title		17 371	16 263
			Maximize view		19 461	18 220
		Plastic	Delete		20 362	19 041
	Plasti	Flastic	Duplicate		17 918	16 759



#38 – Tired of creating wrong defined parameters

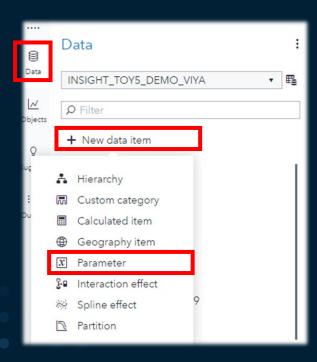
This might help you to create more correct defined parameters





#38 – Tired of creating wrong defined parameters

This might help you to create more correct defined parameters



When we create parameters, I think most of us are using the "New data item" menu and create the parameters from scratch.

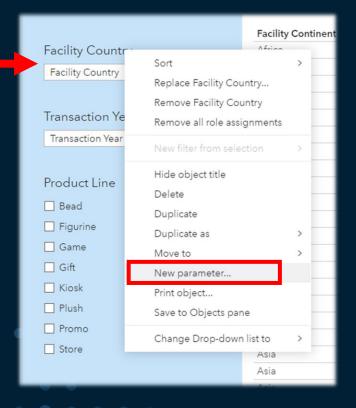
How many of you have created a wrong defined parameter? ^(C)

Here are some tips...



#38 – Tired of creating wrong defined parameters

This might help you to create more correct defined parameters



Did you know that you can use objects to create parameters?

Example: I have a drop-down list object in my report, and I want to create a parameter to be used in the specific drop-down list. Just right-click on the object and select "New parameter..." and VA will help you with the parameter definition \bigcirc

Using the data panel will also give you some help with the data parameter definition.



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#39 – Setting attributes on data items

Setting attributes can be time consuming, but this little tip can speed up things for you

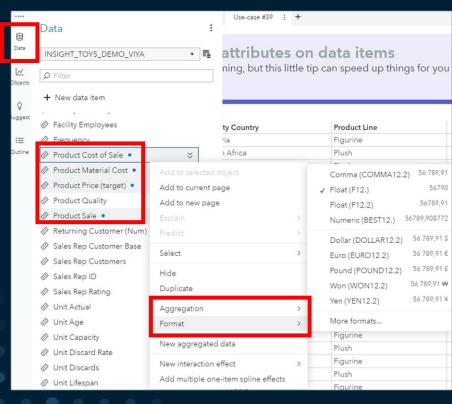




#39 – Setting attributes on data items



Setting attributes can be time consuming, but this little tip can speed up things for you



Did you know that you can manage multiple data items using the left data panel?

You can set format and aggregation type on multiple selected data items ^(C)



#40 – Reuse calculated data items

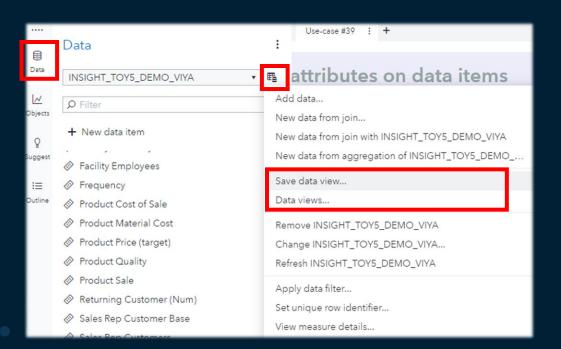
Using SAS Visual Analytics Data Views makes it possible to re-use calculated data items, hierarchies, parameters etc.





#40 – Reuse calculated data items

Using SAS Visual Analytics Data Views makes it possible to re-use calculated data items, hierarchies, parameters etc.



You can save your calculated data items and data item properties in a data view and re-use them later



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