SAS Visual Analytics: An Introduction to Custom Calculations and Aggregations

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Ask the Expert

SAS Visual Analytics: An Introduction to Custom Calculations and Aggregations



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Q&A: Twanda BakerSenior Associate Systems Engineer
SAS Customer Loyalty Team





Intended Audience for today's WebEx

- 1. Your site already has SAS Visual Analytics installed and configured, up and running, and you have logged into it
- You already have at least one data file loaded into the software courtesy of a systems or data administrator or you loaded it yourself
- 3. You already know how to maneuver around the different interfaces of Visual Analytics and have at least somewhat of an understanding of their differences Designer vs. Explorer
- 4. You have already created at least one exploration or one report
- 5. You don't need to be an *expert* or even an *intermediate* user of the software to benefit from this presentation

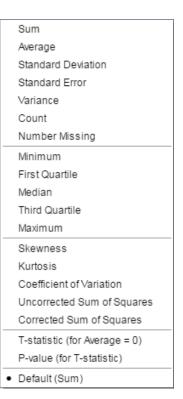


SAS Visual Analytics

STANDARD AGGREGATIONS

Property	Value
Name	Order Total
Classification	Measure
Format	Comma
Aggregation	Sum
Sort Options	

Note: This functionality is available in the Data Pane, List Tables, and Crosstabs

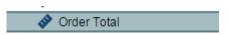


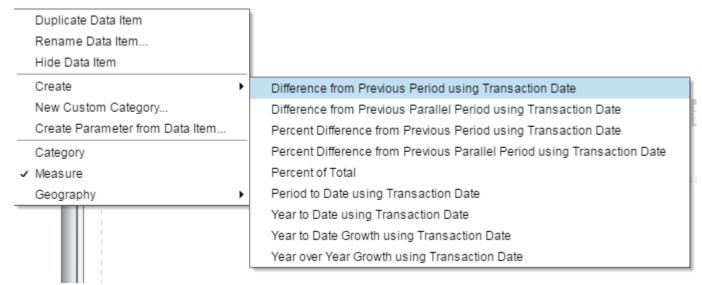


SAS Visual Analytics

SOFTWARE PROVIDED CUSTOM AGGREGATIONS

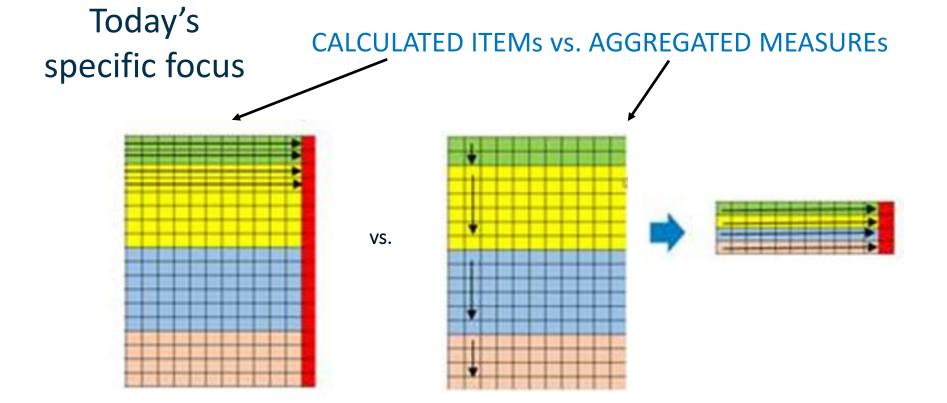
Documentation and training materials call these -> <u>DERIVED ITEMS</u>





Note ... this functionality is available in the Data Pane, List Tables, and Crosstabs.



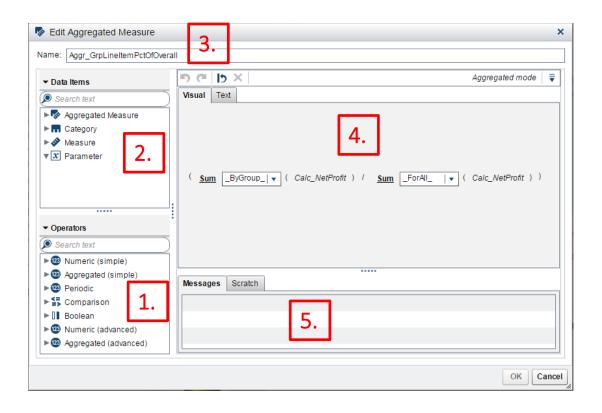


Note: This applies to Visual Analytics Explorer as well as Visual Analytics Designer



Formula builder

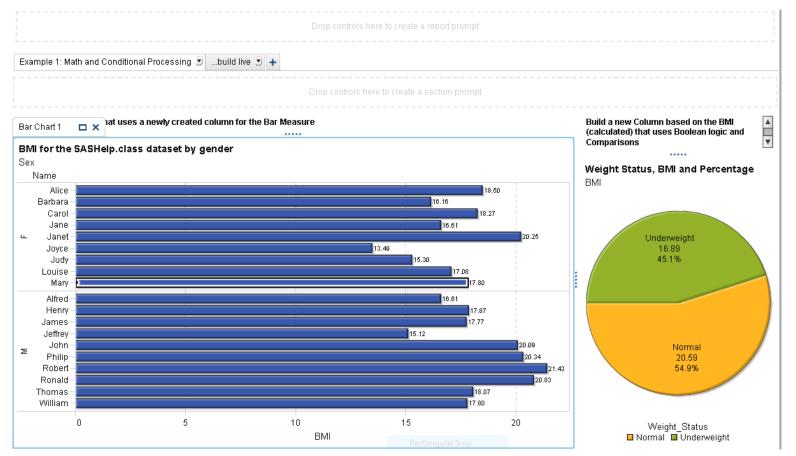
This applies to both Calculated Items as well as Aggregated Measures





Example 1

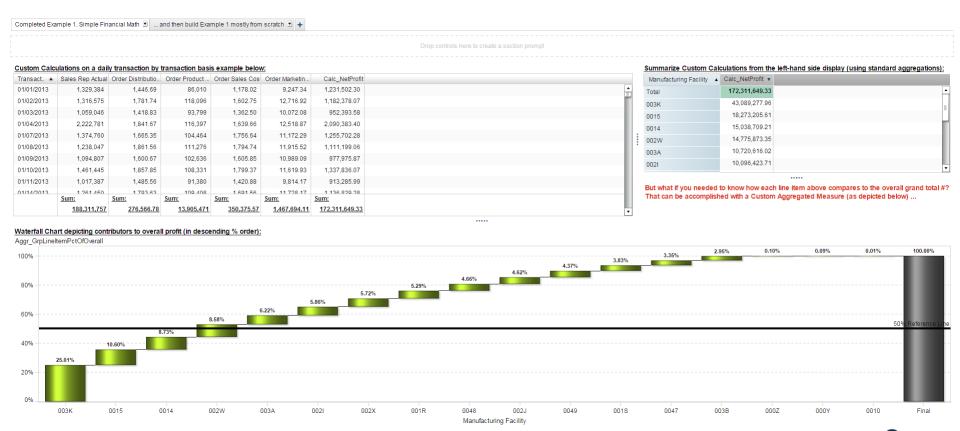
'BMI' as a Custom Calculated Item 'Weight Status' as a C Custom Calculated Item





Example 2

'Revenue minus Costs' as a Custom Calculated Item versus 'Revenue (or Costs) / Overall Revenue (or Costs)' as a Custom Aggregated Measure





Example 3

Custom Calculations (or Aggregated Measures) used as run-time parameters

Top 5 Parameterized Target Differential

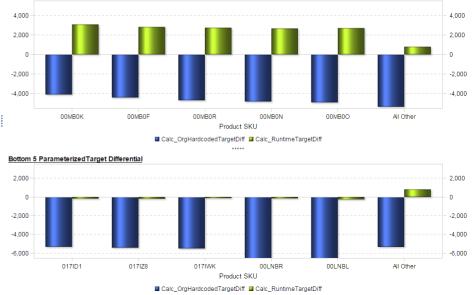
Completed Example 2. Run-time Prompts & Params 🖭 ... and then build Example 2 mostly from scratch 🗓 🛨

)		3,000
	2,500	

Product SKU	Actual	Target	Calc_OrgHardcoded TargetDiff	Calc_RuntimeTarget Diff	
00LNBK	2,468	9,296	-6,827.87	-31.93	
00LNBL	2,238	9,397	-7,159.52	-262.12	
00LNBM	2,438	9,545	-7,106.57	-61.52	
OLNBN	2,561	9,249	-6,688.39	60.51	
00LNBO	2,440	9,238	-6,798.15	-60.45	
00LNBP	2,579	9,358	-6,778.81	79.43	
OOLNBQ	2,511	9,504	-6,993.52	10.59	
OOLNBR	2,335	9,465	-7,130.26	-165.07	
OOLNBS	2,460	9,612	-7,152.14	-39.93	
OOLNBT	2,567	9,437	-6,869.81	67.27	
OLNBU	2,629	9,636	-7,007.16	129.10	
OLNEC	2,429	9,397	-6,968.16	-71.28	
OLNED	2,646	9,674	-7,027.53	146.47	
OLNEE .	2,652	9,317	-6,664.89	151.95	
OLNEF	2,604	9,585	-6,981.89	103.57	
0LNEG	2,546	9,428	-6,882.68	45.78	
OLNEH	2,471	9,364	-6,893.39	-28.97	
OLNEI	2,426	9,332	-6,905.65	-73.77	
0LNEJ	2,732	9,353	-6,620.47	232.33	
OOLNEK	2,611	9,655	-7,043.62	111.24	
00LNEL	2,571	9,468	-6,896.87	71.44	
OLNEM	2,475	9,578	-7,102.83	-24.82	
0LNH4	2,640	9,358	-6,718.66	139.65	
OLNH5	2,652	9,058	-6,406.05	151.57	
0LNH6	2,652	9,566	-6,913.88	151.97	
0LNH7	2,879	9,519	-6,639.11	379.48	

Move above slider to left to decrease target, or move above slider to right to increase target, or enter amount above to generate a what-if analysis of target differential. All visuals on page will update to reflect parameterized value.

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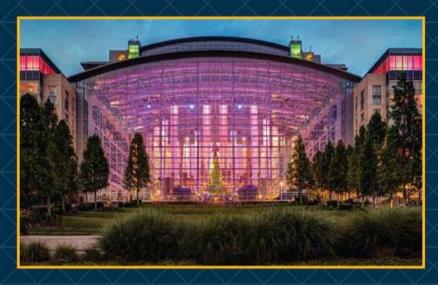
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