



Working with Hierarchies

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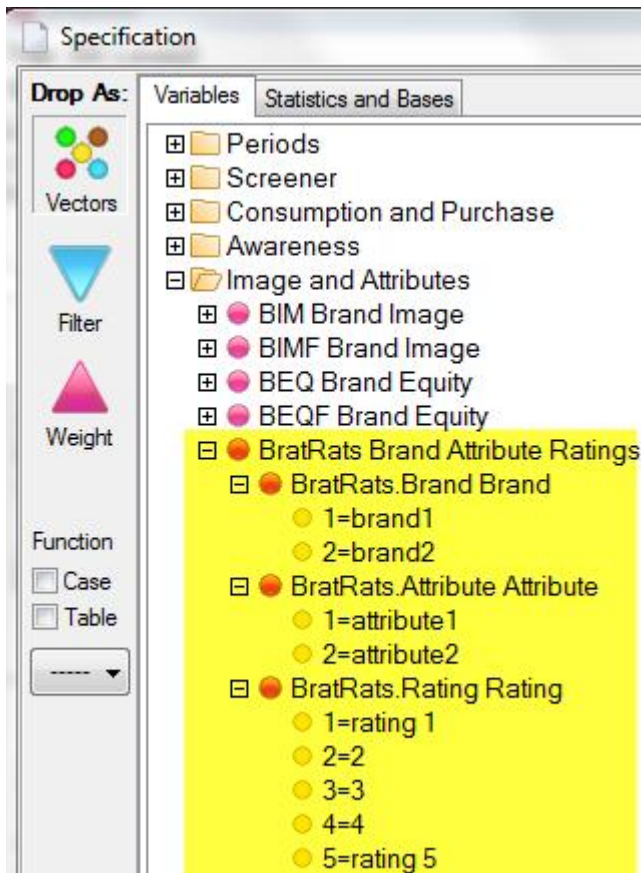
Working with Hierarchies

This document describes how to convert a level 3 hierarchy into a set of level 2 hierarchies, and then how to convert a set of level 2 hierarchies to a level 3 hierarchy. The Ruby Demo job is used.

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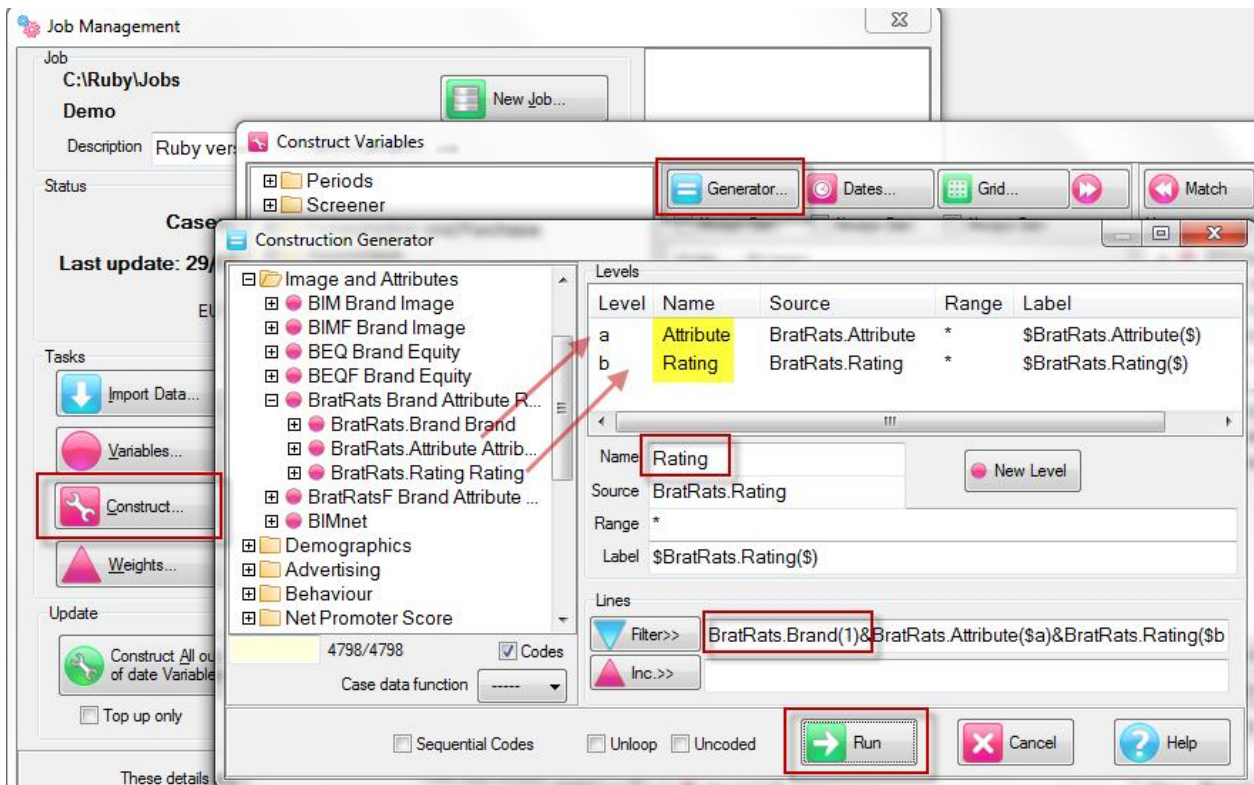
LEVEL 3 TO A SET OF LEVEL 2 HIERARCHIES

A level 3 hierarchy in Demo is BratRats.



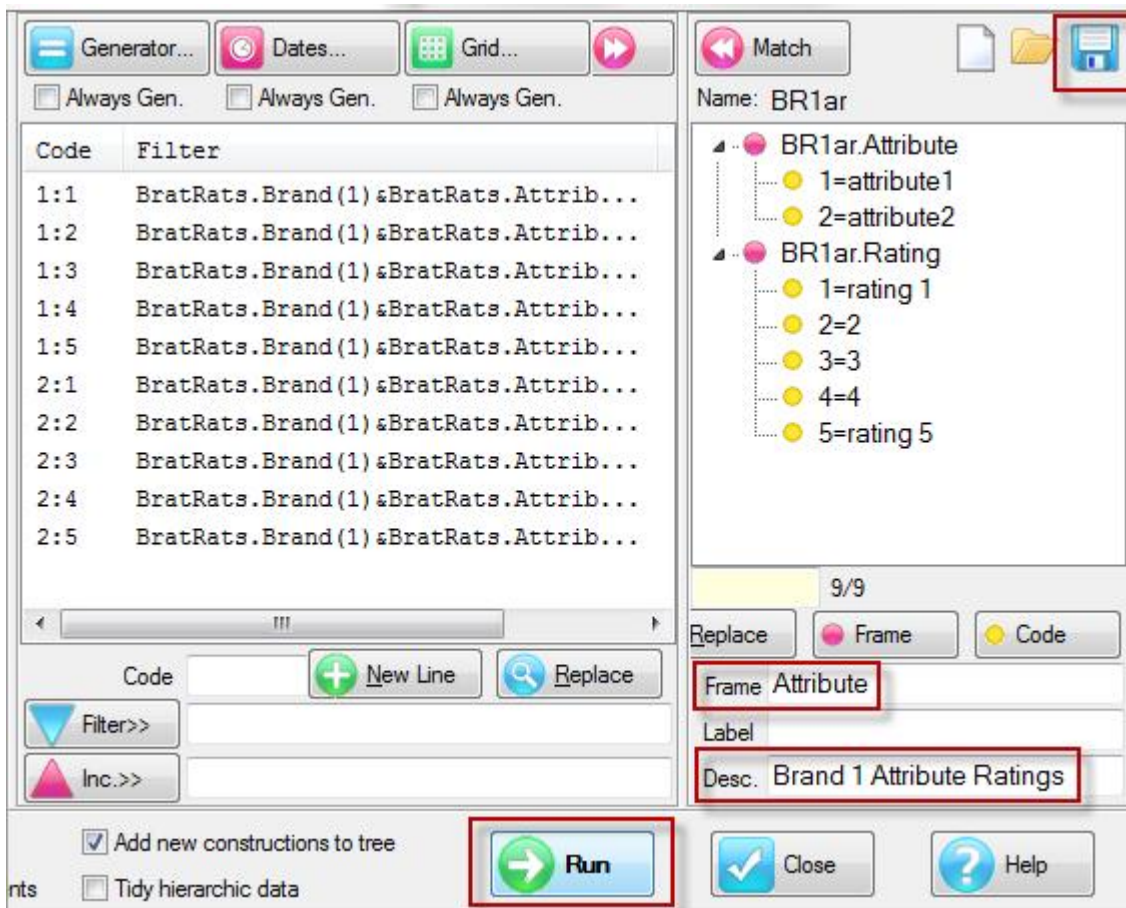
To break this into two level 2 hierarchies

- Job Management
- Construct
- Generator
- Drag BratRats.Attribute and BratRats.Rating to the Levels panel
- Set the level names to Attribute and Rating
- Insert BratRats.Brand(1)& at the front of the filter
- Run



This generates all the mapping filters.

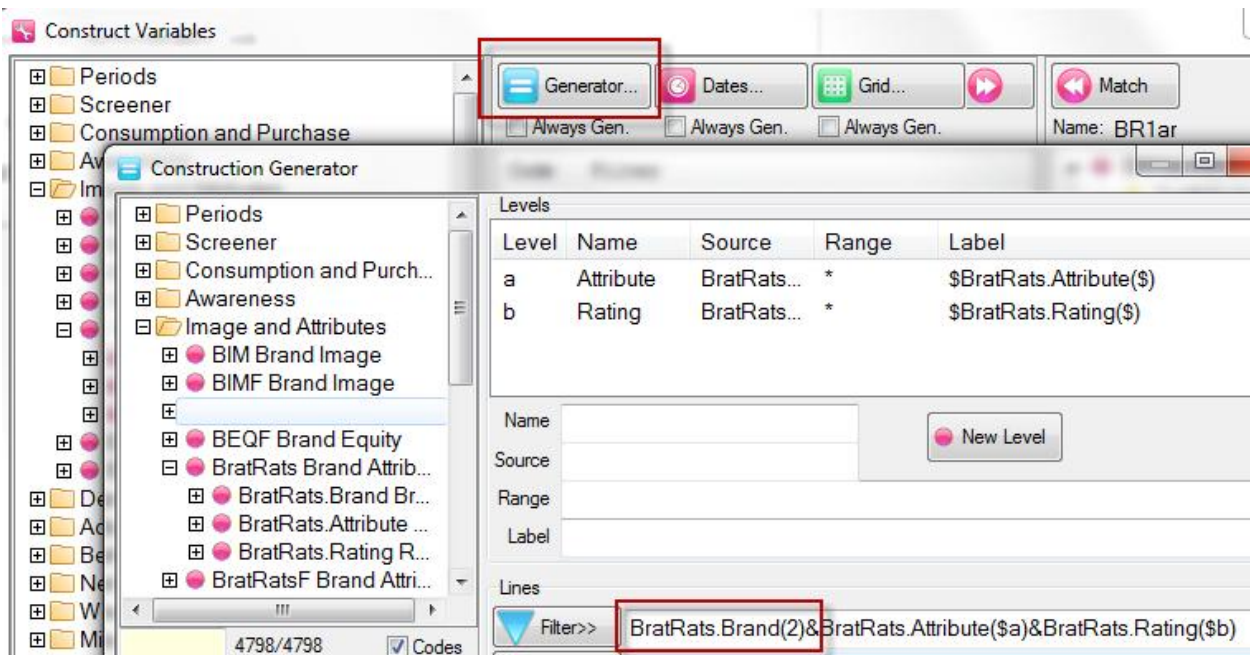
- Set the description to Brand 1 Attribute Ratings
- Save As BR1ar (for Brand1 attribute ratings)
- Run



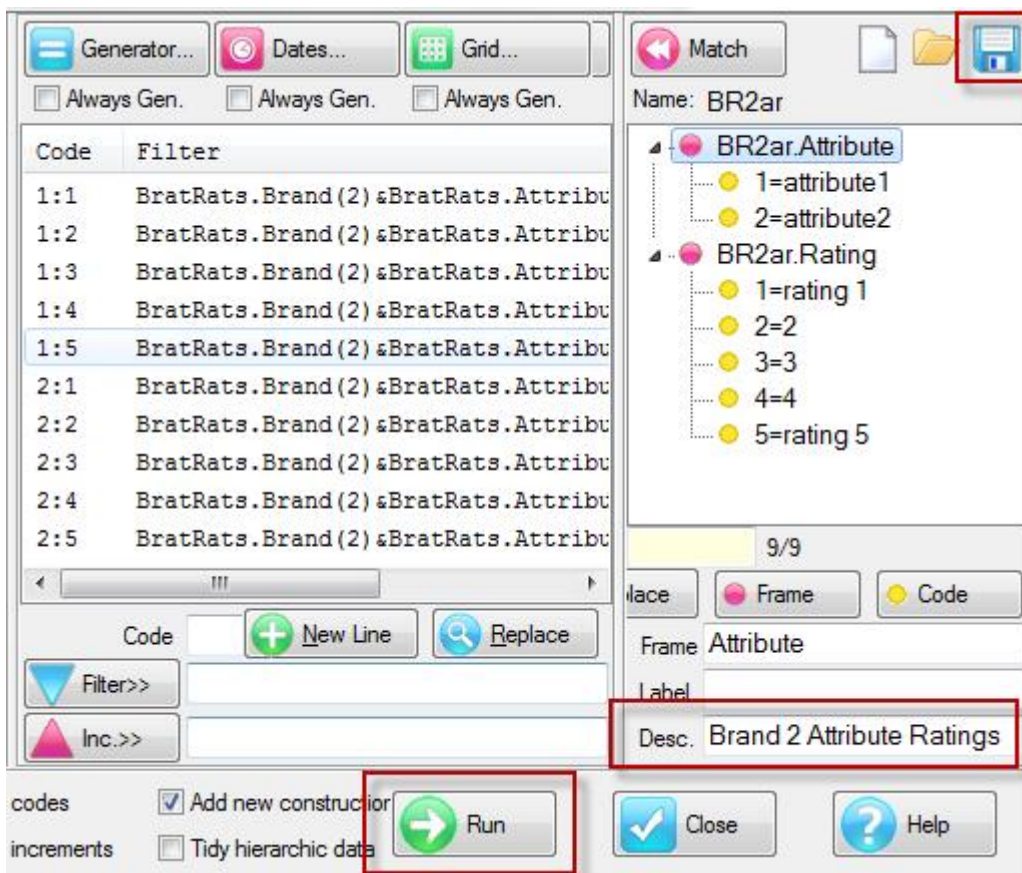
BR1ar is appended to the vartree



- Return to the Generator, and change the brand code to 2



- Run
- The mapping filters are generated.
- Change the description to Brand 2 Attribute Ratings
- Save as BR2ar
- Run



BR2ar is appended to the vartree.

- ☐ Million Cases
- ☐ 100k Cases
- ☐ DP Only
- ☐ Brand2List
- ☐ BR1ar Brand 1 Attribute Ratings
 - ☐ BR1ar.Attribute
 - ☐ BR1ar.Rating
- ☐ BR2ar Brand 2 Attribute Ratings
 - ☐ BR2ar.Attribute
 - ☐ BR2ar.Rating

To confirm, run the tables

- BR1ar.Attribute by BR1ar.Rating
- BR2ar.Attribute by BR2ar.Rating
- BratRats.Attribute by BratRats.Rating with the side axis nested on BratRats.Brand

The third table duplicates the first two.

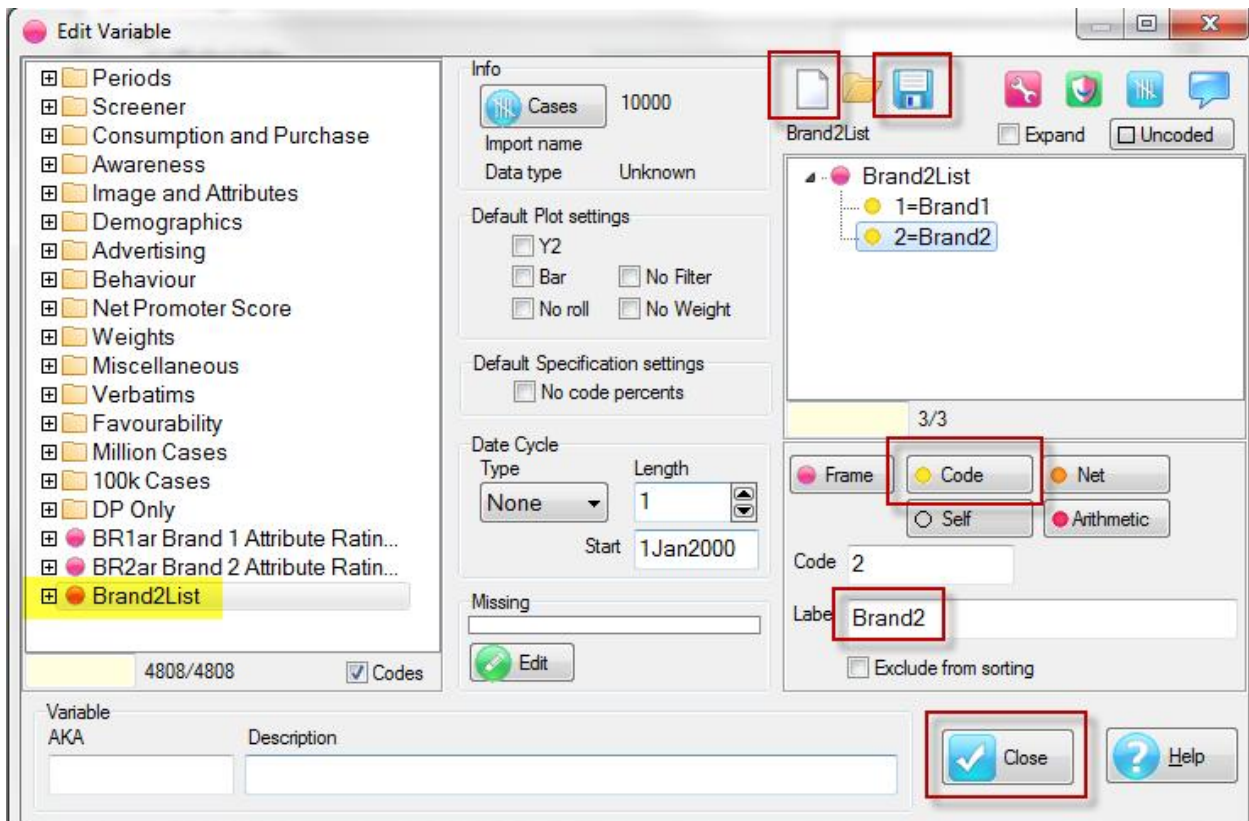
SReport1				SReport2					
Top: BR1ar.Attribute				Top: BR2ar.Attribute					
Side: BR1ar.Rating				Side: BR2ar.Rating					
Frequencies		BR1ar.Attribute			Frequencies		BR2ar.Attribute		
Corner Net Respondents		Cases WF	attribute1	attribute2	Corner Net Respondents		Cases WF	attribute1	attribute2
Pad Hierarchic		A	B	C	Pad Hierarchic		A	B	C
BR1ar.Rating	Cases WF	10,000	10,000	10,000	BR2ar.Rating	Cases WF	10,000	10,000	10,000
	rating 1	3,808	2,483	1,746		rating 1	2,015	361	1,654
	2	3,716	2,479	2,125		2	4,571	2,898	2,119
	3	5,356	2,016	3,340		3	4,698	3,403	2,164
	4	4,572	2,195	2,377		4	4,248	1,776	2,472
	rating 5	1,239	827	412		rating 5	2,730	1,562	1,591

SReport3					
Top: BratRats.Attribute					
Side: BratRats.Rating					
Frequencies		BratRats.Attribute			
Corner Net Respondents		Cases WF	attribute1	attribute2	
Pad Hierarchic		A	B	C	
BratRats.Brand (br	BratRats.Rating	Cases WF	10,000	10,000	10,000
		rating 1	3,808	2,483	1,746
		2	3,716	2,479	2,125
		3	5,356	2,016	3,340
		4	4,572	2,195	2,377
		rating 5	1,239	827	412
BratRats.Brand (br	BratRats.Rating	Cases WF	10,000	10,000	10,000
		rating 1	2,015	361	1,654
		2	4,571	2,898	2,119
		3	4,698	3,403	2,164
		4	4,248	1,776	2,472
		rating 5	2,730	1,562	1,591

A SET OF LEVEL 2 HIERARCHIES TO LEVEL 3

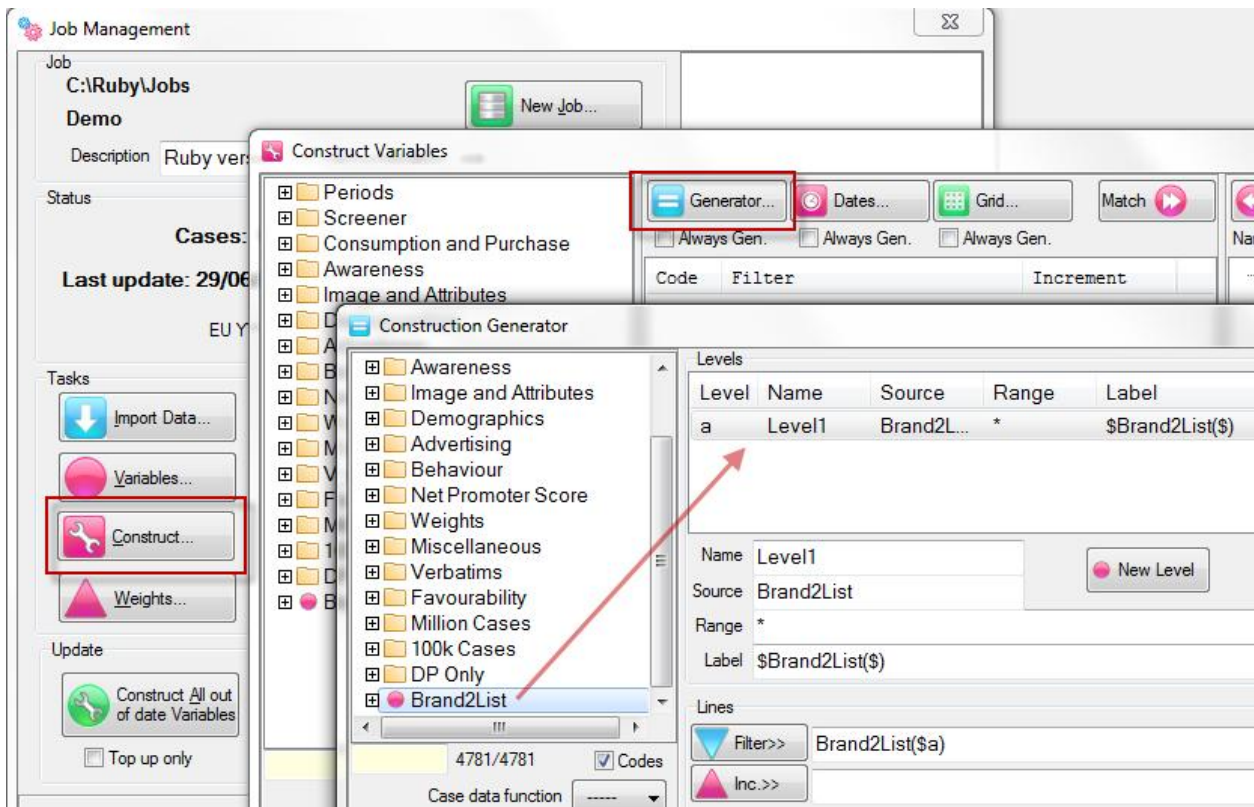
To go the other way we first need to create a codeframe for the two parent brands, brand1 and brand2, using the Variables form. This is then used as an input to the Line Generator to finally construct a single level 3.

- Job Management | Variables
- Create two codes, labelled Brand1 and Brand2
- Save as Brand2List
- Close



The codeframe is appended to the end of the vartree.

- Job Management | Construct | Generator
- Drag Brand2List to the middle panel



The creates the outer loop.

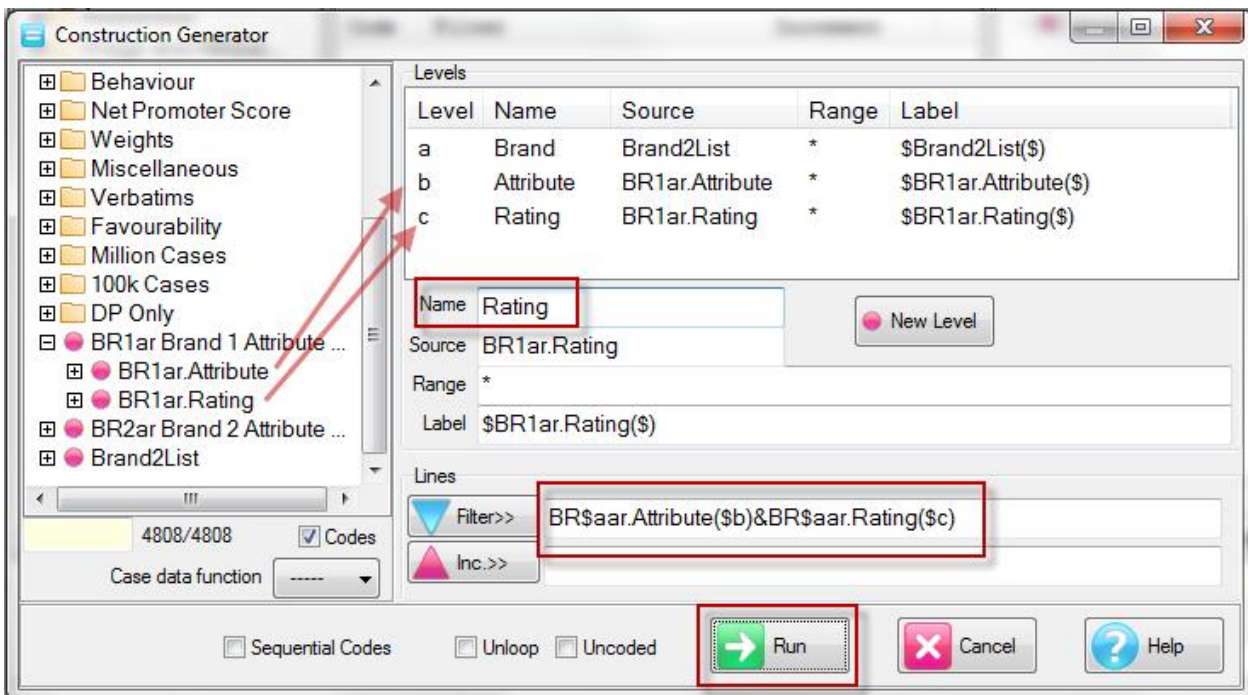
- Open BR1ar and drag the Attribute and Rating levels to the Levels panel
- Set the three level names to Brand, Attribute and Rating
- Edit the filter from

Brand2List(\$a)&BR1ar.Attribute(\$b)&BR1ar.Rating(\$c)

to

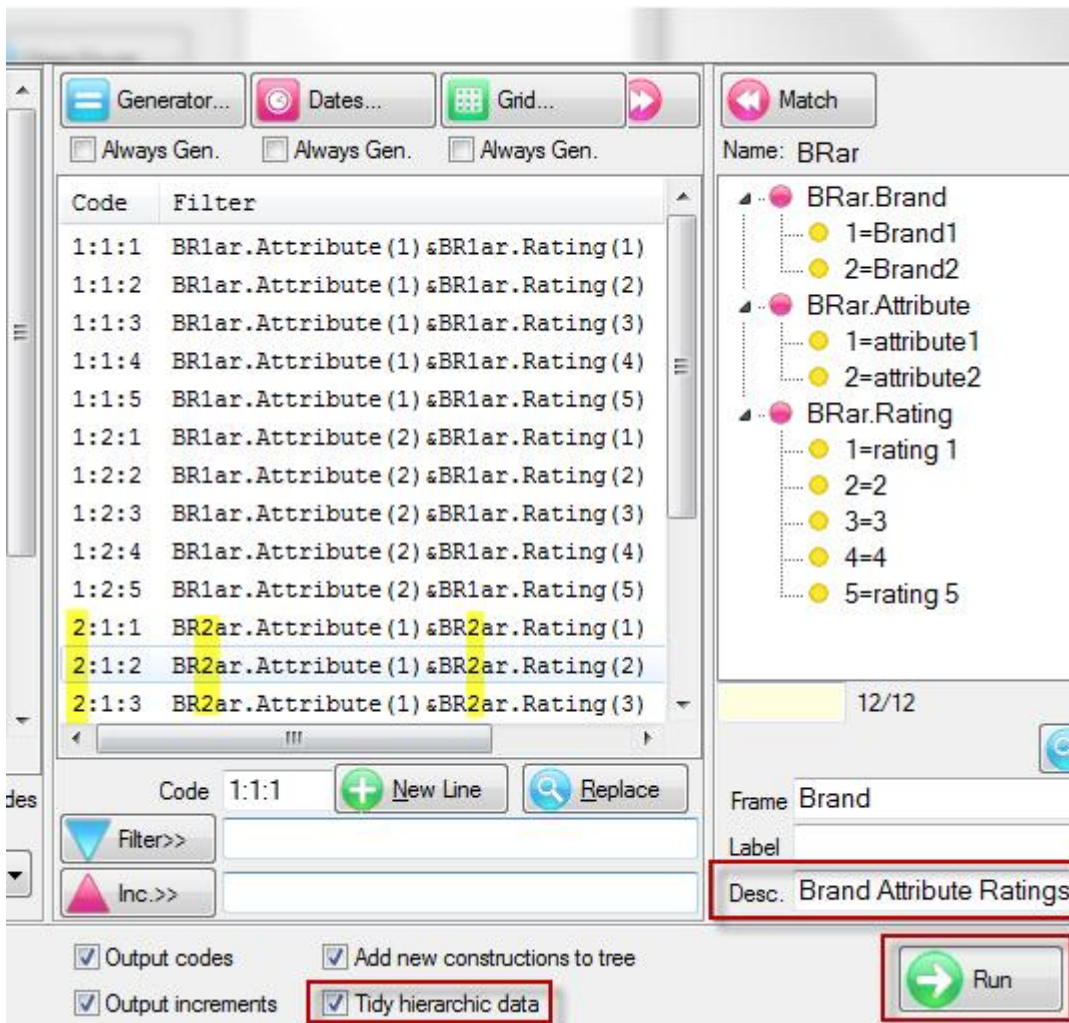
BR\$aar.Attribute(\$b)&BR\$aar.Rating(\$c)

- Run



The mapping filters are generated by substituting the codes at each level, indicated by \$a, \$b and \$c.

- Set the description as Brand Attribute Ratings
- Check Tidy Hierarchic Data
- Run



The variable BRar is appended to the vartree.



To confirm, run the tables

- BRar.Attributes by BRar.Ratings with the side axis nested on BRar.Brand
- BratRats.Attributes by BratRats.Ratings with the side axis nested on BratRats.Brand

The tables should be identical.

Top: BRar.Attribute Side: BRar.Rating				Top: BratRats.Attribute Side: BratRats.Rating							
Frequencies Corner Net Respondents Pad Hierarchic		BRar.Attribute			Frequencies Corner Net Respondents Pad Hierarchic		BratRats.Attribute				
		Cases WF	attribute1	attribute2			Cases WF	attribute1	attribute2		
		A	B	C			A	B	C		
BRar.Brand (Brand BRar.Brand (Brand	BRar.Rating	Cases WF	10,000	10,000	10,000	BratRats.Brand (br BratRats.Brand (br	BratRats.Rating	Cases WF	10,000	10,000	10,000
		rating 1	3,808	2,483	1,746			rating 1	3,808	2,483	1,746
		2	3,716	2,479	2,125			2	3,716	2,479	2,125
		3	5,356	2,016	3,340			3	5,356	2,016	3,340
		4	4,572	2,195	2,377			4	4,572	2,195	2,377
		rating 5	1,239	827	412			rating 5	1,239	827	412
BRar.Brand (Brand BRar.Brand (Brand	BRar.Rating	Cases WF	10,000	10,000	10,000	BratRats.Brand (br BratRats.Brand (br	BratRats.Rating	Cases WF	10,000	10,000	10,000
		rating 1	2,015	361	1,654			rating 1	2,015	361	1,654
		2	4,571	2,898	2,119			2	4,571	2,898	2,119
		3	4,698	3,403	2,164			3	4,698	3,403	2,164
		4	4,248	1,776	2,472			4	4,248	1,776	2,472
		rating 5	2,730	1,562	1,591			rating 5	2,730	1,562	1,591

Run the tables

- BR1ar.Attributes by BR1ar.Ratings
- BR2ar.Attributes by BR2ar.Ratings

The cells contents should match the nested tables above.

Top: BR1ar.Attribute Side: BR1ar.Rating				Top: BR2ar.Attribute Side: BR2ar.Rating					
Frequencies Corner Net Respondents Pad Hierarchic		BR1ar.Attribute			Frequencies Corner Net Respondents Pad Hierarchic		BR2ar.Attribute		
		Cases WF	attribute1	attribute2			Cases WF	attribute1	attribute2
		A	B	C			A	B	C
BR1ar.Rating	Cases WF	10,000	10,000	10,000	BR2ar.Rating	Cases WF	10,000	10,000	10,000
	rating 1	3,808	2,483	1,746		rating 1	2,015	361	1,654
	2	3,716	2,479	2,125		2	4,571	2,898	2,119
	3	5,356	2,016	3,340		3	4,698	3,403	2,164
	4	4,572	2,195	2,377		4	4,248	1,776	2,472
	rating 5	1,239	827	412		rating 5	2,730	1,562	1,591

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