

# Working with Filters

## Stratum.Viewer 6

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- [Axis Filter](#)
- [Display Column](#)
- [View Filter](#)

## Getting Started


### Access to Filtering

Your user profile level controls what you can do in terms of filtering levels, attribute relationships, measure items, and totals in views.

User Profile Level		Apply New Filters	Edit Existing Filters
Casual		✓*	✓*
Advanced		✓	✓
View Administrator		✓	✓
Security Administrator		✓	✓

**\*Note:** Casual users can click an existing filter icon to change a filter or use the [Filters window](#) to add or change filters. But, they will not see a Filter option when they right-click in the grid to access the grid pop-up menu.


### Introduction to Filtering

Filtering is a way of selecting the data that is most important to you. Filters can be associated with levels, measure items, totals, the overall view, and rows and columns. You can combine filters with sorts to achieve a view of data that best suits your business needs. A filter cue  displays when a filter has been applied. Click on that filter cue to review, edit, or clear the applied filter. You also can add and manage filters from the [Filters window](#), which is accessed from the Change Filters icon in a view.



### Level Filter

You can filter levels using members, user lists, named sets, and expressions. For example, you have a view listing RepBrokers and you want to only see three. You apply the member filter shown below.

View Filter					
 RepBroker	RepBr Long Description	Actual Sales	Sales Amount	Budget Budget Amount Working	Budget Budget Amount Frozen
300	Nicole Toscano		\$4,977,057,972	\$5,078,516,759	\$5,427,126,882
303	Michelle Knapp		\$383,687,140	\$391,842,595	\$418,143,748
315	Mary Lopez		\$474,781,894	\$479,040,355	\$509,894,987
<b>Grand Total</b>			<b>\$5,835,527,007</b>	<b>\$5,949,399,708</b>	<b>\$6,355,165,617</b>

## Measure Item Filter

You can filter individual measure items by selecting a filter operator and value. For example, you may have a Daily Sales Amount measure item but only want to include amounts greater than or equal to \$250,000. You would select the Daily Sales Amount measure and apply a filter of  $\geq 250000$ .

UPC Global Number	UPC Long Description	Daily Sales Amount Current Yr/Current Month	Daily Sales Units Current Yr/Current Month
<a href="#">0 - 02749 - 25408 - 6</a>	Asparagus	\$324,089	5,113
<a href="#">0 - 02749 - 99267 - 6</a>	Cherries, Bing	\$333,999	5,524
<a href="#">0 - 06403 - 92736 - 2</a>	Orange Juice Conc.	\$294,338	5,105
<a href="#">0 - 13800 - 30321 - 9</a>	Frozen Lasagna Dinner	\$592,291	7,641
<a href="#">0 - 13800 - 78934 - 9</a>	Meatloaf, Frozen	\$576,907	7,787
<a href="#">0 - 24000 - 12491 - 4</a>	Peach		
<a href="#">0 - 24000 - 12591 - 4</a>	Peach		
<a href="#">0 - 39484 - 92630 - 1</a>	Nave		
<a href="#">0 - 70606 - 02232 - 8</a>	Pork		
<a href="#">0 - 79453 - 09722 - 7</a>	Swee		

**MEASURE ITEM FILTER: DAILY SALES AMOUNT CURRENT YR/CURRENT MONTH** ✕

Operator:  Value:

OK Cancel

## Axis Filter

You can filter the row or column axis. Use this type of filter when you want to filter by multiple measure items or both measure items and attribute relationships. The below example has a filter applied to the rows. The only product data displayed meets the following filter criteria: sales less than \$2,000 and Product ABC Classification equal to B.

Ship-To Region	Product	Prod ABC Classification	Sales Amount Jan 2014 to Sep 2014	Sales Return Amount Jan 2014 to Sep 2014	Sales after Returns
50	<a href="#">Cherry Filling 12 oz BR* 0A</a>	B	\$185	(\$419)	-\$234
50	<a href="#">Pear Hlys LS 106 oz BR* 0A</a>	B	\$1,545	(\$978)	\$567
50	<a href="#">Prunes Pitted 106 oz BR* 0A</a>	B	\$1,360	(\$647)	\$713
50	<a href="#">Cherry Filling 12 oz BR* 0B</a>	B	\$370	(\$837)	-\$468
50	<a href="#">Cherry Filling 12 oz BR* 0C</a>	B	\$203	(\$461)	-\$257
50	<a href="#">Pear Hlys LS 106 oz BR* 0C</a>	B	\$1,699	(\$1,076)	\$623

**EXPRESSION - ROWS** ✕

View Items and Functions

- Hierarchies
  - Ship-To Region
  - Product
    - Product
      - Attribute Relationships
        - Prod Long Description
        - Prod ABC Classification
      - Members
    - UPC Global Number
    - UPC Classification

Expression

[Measures].[Data17 (Sales Amount Jan 2014 to Sep 2014)] <2000 AND [Product].[Product].Properties("Prod ABC Classification") = "B"

## Relationship and Empty Filter

You can filter rows and columns through their Relationship and Empty Filter properties. That type of filtering takes into consideration the existence of data or lack of data in the database given the levels and measure items for the view.

The screenshot shows the 'View Explorer' window with the 'Columns' folder selected under 'Grid'. Below it, the 'Properties - Columns' dialog box is open, showing various settings. The 'Relationship Filter' and 'Empty Filter' properties are circled in red, both set to 'Yes'.

Properties - Columns	
Drilldown View	None
Repeating Values	Yes
Totals Default	Yes
All Others Default	No
Relationship Filter	Yes
Empty Filter	Yes
Axis Filter	



## View Filter

You can filter an overall view in relation to members of a particular level through the View Filter section. The data returned in the rest of the view will be just the data relevant to members specified by the View Filter. For example, you have a view listing Lot data, but you want to filter to include only Lot data pertaining to A products. You add the Product ABC Class level to the View Filter section and filter it by A products.

The screenshot shows a data table with columns for Lot, Daily Sales Amount, and Daily Sales Units for two periods. A 'View Filter' dialog box is open, showing 'Product ABC Class' selected. The 'SELECT MEMBERS: PRODUCT ABC CLASS' text is circled in red. The dialog box also shows a search bar and a list of members (A, B, C, D) with 'A' selected.

Lot	Daily Sales Amount Jan 2014 to Sep 2014	Daily Sales Units Jan 2014 to Sep 2014	Daily Sales Amount Jan 2013 to Sep 2013	Daily Sales Units Jan 2013 to Sep 2013
19994336914001	\$6,347	277	\$5,078	222
19994336914002	\$7,449			
19994336914003	\$27,628			
19994336914022	\$46,235			
19994336914422	\$39,564			
19994336914601	\$343			
19994336914615	\$5,747			
19994336924001	\$29,442			
19994336924002	\$1,206			

### Apply a Filter to Levels

1. Click the Change Filters icon  in the grid toolbar to access the [Filters window](#). From the Filters window, click the Change Filter icon  next to the level name.

**OR**

1. Right-click the level in the grid and select Filter then Edit.
2. The Select Members window for defining the filter will display. Select the members in the [Select](#) or [Advanced Select Members window](#), then click OK.

If you need to apply a different type of filter, click the More button and choose Change Filter Type. Then choose the filter method (User List, Named Set, Expression) from the Select Filter Method window. Use the applicable filter window that displays to set up the filter, and then click OK.

- **User List** - select a list from the [Select User List Filter window](#).
  - **Named Set** - select a named set from the [Select Named Set Filter window](#).
  - **Expression** - adjust the filter expression in the [Expression window](#).
3. If you initiated your filtering from the Filters window, you can apply filters to additional levels by clicking their Change Filter icon. Then see Step 2 above. When you are done in the Filters window, click OK.

### Apply a Filter to Measure Items

1. Right-click the measure item in the grid and select Filter then Edit.
2. Select the filter operator and enter a filter value in the [Measure Item Filter window](#).
3. Click OK.

**OR**

1. Double-click the measure item in view explorer to open its [Properties window](#).
2. Select the filter operator from the Filter drop-down list and enter a filter value in the field next to the list.

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**Note:** Use the first option if there are levels on the same axis as measure items.

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## Apply a Filter to Totals

1. Right-click the caption of a measure item in a Grand Total row or column, and select Filter then Edit.
2. Select the filter operator and enter a filter value in the [Measure Item Filter window](#).
3. Click OK.

## Apply a Relationship or Empty Filter

1. Double-click the Rows or Columns folder in view explorer. The [Rows](#) or [Columns](#) Properties window displays.
2. Adjust the Yes and No settings for the filter that you want to set up.

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**Note:** In order for the Empty Filter property to be set to Yes, the Relationship Filter property must be set to Yes.

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## Apply a View Filter

### Option 1

The level will not act as a filter on the entire view until the level is positioned in the View Filter section. If the level that you filtered is not yet positioned in the View Filter section of the view, drag and drop it to that section from the grid or view explorer. If the level(s) is already positioned in the View Filter section of the view, follow these steps.

1. Click the name of the level.
2. The Select Members window for defining the filter will display. Select the members in the [Select](#) or [Advanced Select Members window](#), then click OK.



If you need to apply a different type of filter, click the More button and choose Change Filter Type, Then choose the filter method (User List, Named Set, Expression) from the Select Filter Method window. Use the applicable filter window that displays to set up the filter, and then click OK.

- **User List** - select a list from the [Select User List Filter window](#).
- **Named Set** - select a named set from the [Select Named Set Filter window](#).
- **Expression** - adjust the filter expression in the [Expression window](#).

3. Repeat the prior steps for any other levels in the View Filter.

### Option 2



Another option for setting up a View Filter follows.

1. Click the Change Filters icon  in the grid toolbar to access the [Filters window](#). From the Filters window, click the Change Filter icon  next to the name of the level that will act as the View Filter.
2. The Select Members window for defining the filter will display. Select the members in the [Select](#) or [Advanced Select Members window](#), then click OK.

If you need to apply a different type of filter, click the More button and choose Change Filter Type, Then choose the filter method (User List, Named Set, Expression) from the Select Filter Method window. Use the applicable filter window that displays to set up the filter, and then click OK.

- **User List** - select a list from the [Select User List Filter window](#).
  - **Named Set** - select a named set from the [Select Named Set Filter window](#).
  - **Expression** - adjust the filter expression in the [Expression window](#).
3. Repeat the prior steps for any other levels that will act as the View Filter.
  4. Click OK in the Filters window when you are done setting up filters on all applicable levels.
  5. Levels will be moved to the View Filter section for you automatically after you close the Filters window in cases where the level that you added a filter to was not yet drilled to in the view. Otherwise, you will need to manually drag and drop the level(s) to the View Filter section for the view filter to take effect.

## Apply an Axis Filter




1. Click the Rows  or Columns axis  icon (whichever axis you want to filter).
2. Use the [Expression window](#) that displays to set up the expression for the filter, and then click OK.

See also: [Example Expressions for Filtering an Axis](#) and [Axis Filter Behavior When Levels are on Opposite Axis](#).

## Tasks - Editing

### Change Existing Filters



#### Axis Filters

1. Click the filter icon  next to the axis icon, either  for rows or  for columns.
2. Use the [Expression window](#) to edit the filter expression.


#### Level Filters

1. Click the filter icon  next to the level.

**OR**

1. Click the Change Filters icon  in the grid toolbar to access the [Filters window](#). From the Filters window, click the Change Filter icon  next to the level name.
2. The appropriate window for editing the filter will display depending on the filter type (member, named set, expression, user list).
  - **Member List** - adjust the members in the [Select](#) or [Advanced Select Members window](#), then click OK.
  - **User List** - select a list from the [Select User List Filter window](#), then click OK.
  - **Named Set** - select a named set from the [Select Named Set Filter window](#), then click OK.
  - **Expression** - adjust the filter expression in the [Expression window](#), then click OK.

#### Measure Item Filters

1. Click the filter icon  next to the measure item.
2. Use the [Measure Item Filter window](#) to edit the filter.



## ***Relationship or Empty Filters***


1. Double-click the Rows or Columns folder in view explorer. The Rows or Columns Properties window displays.
2. Adjust the Yes and No settings for the filter that you need to edit.

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**Note:** In order for the Empty Filter property to be Yes, the Relationship Filter property must be Yes.

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## ***Total Filters***



1. Click the filter icon  next to the caption of the measure item in the Grand Total row or column.
2. Use the [Measure Item Filter window](#) to edit the filter.

## **Clear Filters**

### ***Clear Individual Filter***

Right-click the filtered object in the grid and select Filter then Clear.

**OR**

Click the Change Filters icon  in the grid toolbar to access the [Filters window](#). From the Filters window, click the Clear Filter icon  next to the level name.

### ***Clear All Filters***

Right-click any filtered object in the grid (measure item, level, axis), and select Filter then Clear All.

# Examples

## Expressions for Rolling "N" Period Based Views

These examples show how to create period based views that display rolling "N" periods. This is done by creating a level filter on a time hierarchy. The time range property for the view in both examples was set to No.

The first view is a rolling 12 weeks. It has rows comprised of the two levels from the Year Weeks time hierarchy. The Weeks level has a Rolling "12" filter on it that calculates the current week and prior 11 weeks. The filter returns Week 38 back through Week 27 in this example.

View Name: <i>Rolling 12 Weeks for Sales</i>									
View Filter									
	<b>Company &gt;&gt;</b>	<u>100</u>							
	<b>Co Long Description</b>	Fresh to Market Foods, Inc							
	<b>RepBroker &gt;&gt;</b>	300		301		302			
	<b>RepBr Long Description</b>	Nicole Toscano		Patrick Hurley		Mark Fiedler		Mich	
▼ <b>Year</b>	▼ <b>Weeks</b>	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units
<u>2014</u>	Week 38	\$37,500,634	786,436	\$2,456,915	42,399	\$6,981,694	121,890	\$	
	Week 37	\$46,125,781	1,769,482	\$3,022,006	95,398	\$8,587,484	274,252	\$	
	Week 36	\$65,854,480	1,391,916	\$4,083,679	73,901	\$11,657,521	203,782	\$	
	Week 35	\$25,234,922	605,479	\$1,447,819	31,502	\$4,161,486	81,892	\$	
	Week 34	\$28,554,418	1,362,328	\$1,639,609	70,881	\$4,708,660	184,257	\$	
	Week 33	\$28,353,845	1,453,150	\$1,626,763	75,606	\$4,675,827	196,541	\$	
	Week 32	\$28,836,934	605,479	\$1,653,469	31,502	\$4,747,902	81,892	\$	
	Week 31	\$57,479,261	1,226,362	\$4,026,631	67,511	\$10,257,370	178,545	\$	
	Week 30	\$29,125,416	620,883	\$2,399,867	36,009	\$5,581,544	96,653	\$	
	Week 29	\$20,096,537	1,490,120	\$1,655,909	86,420	\$3,851,265	231,966	\$	
	Week 28	\$29,125,416	620,883	\$2,399,867	36,009	\$5,581,544	96,653	\$	
	Week 27	\$54,362,560	1,145,877	\$4,122,783	63,670	\$10,683,421	184,963	\$	
	<b>2014 Total</b>	<b>\$450,650,203</b>	<b>13,078,395</b>	<b>\$30,535,318</b>	<b>710,808</b>	<b>\$81,475,717</b>	<b>1,933,285</b>	<b>\$</b>	<b>\$</b>
<b>Grand Total</b>		<b>\$450,650,203</b>	<b>13,078,395</b>	<b>\$30,535,318</b>	<b>710,808</b>	<b>\$81,475,717</b>	<b>1,933,285</b>	<b>\$</b>	<b>\$</b>

**View Explorer**

- Rolling 12 Weeks for Sales
  - Parameter Groups
  - Grid
    - Rows
      - Year Weeks**
        - Year
        - Weeks
- Columns
  - Company
  - RepBroker
- View Filter
- Measure Items
  - Actual Sales Sales Amount
  - Actual Sales Sales Units
- Presentation
- Charts

The expression for the level filter is:

```
COUNT(EXISTS([Time].[Year Weeks].CurrentMember, LASTPERIODS(12, EXISTS([Time].[Year Weeks].[Weeks].members, [Time].[Year Based Weeks Based].[Year Based].[Current Year].[Current Week]).Item(0))))
```

This expression uses the Year Based Weeks Based hierarchy to determine the Current Week, Current Year.

**EXPRESSION - WEEKS** [X]

View Items and Functions	Expression
<ul style="list-style-type: none"><li>▲ Hierarchies<ul style="list-style-type: none"><li>▲ ↕ Year Weeks<ul style="list-style-type: none"><li>▶ ■ Year</li><li>▶ ■ Weeks</li></ul></li><li>▶ ↕ Company</li><li>▶ ↕ RepBroker</li></ul></li><li>▶ Measure Items</li><li>▶ Functions</li></ul>	<pre>COUNT(EXISTS([Time].[Year Weeks].CurrentMember, LASTPERIODS(12, EXISTS([Time].[Year Weeks].[Weeks].members, [Time].[Year Based Weeks Based].[Year Based].[Current Year].[Current Week]).Item(0))))</pre>

OK   Validate   Cancel   Help

A simple change to the expression changes the view to a rolling 52 weeks. Change the 12 in the expression to 52. It will calculate the current week and prior 51 weeks.

COUNT(EXISTS([Time].[Year Weeks].CurrentMember, LASTPERIODS(52, EXISTS([Time].[Year Weeks].[Weeks].members, [Time].[Year Based Weeks Based].[Year Based].[Current Year].[Current Week]).Item(0))))

Here is the refreshed view after making that change. The filter returns Week 38 of 2014 through Week 39 of 2013.

Company >>		100						
Co Long Description		Fresh to Market Foods, Inc						
RepBroker >>		300		301		302		303
RepBr Long Description		Nicole Toscano		Patrick Hurley		Mark Fiedler		Michelle Kn
▼ Year	▼ ↑ Weeks	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount
<a href="#">2014</a>	Week 38	\$37,500,634	786,436	\$2,456,915	42,399	\$6,981,694	121,890	\$3,009,...
	Week 37	\$46,125,781	1,769,482	\$3,022,006	95,398	\$8,587,484	274,252	\$3,701,...
	Week 36	\$65,854,480	1,391,916	\$4,083,679	73,901	\$11,657,521	203,782	\$5,436,...
	Week 35	\$25,234,922	605,479	\$1,447,819	31,502	\$4,161,486	81,892	\$2,159,...
	Week 34	\$28,554,418	1,362,328	\$1,639,609	70,881	\$4,708,660	184,257	\$2,442,...
	Week 33	\$28,353,845	1,453,150	\$1,736,763	75,606	\$4,675,827	196,541	\$2,426,...
	Week 6	\$22,877,2...	479,674	\$2,336,566	22,356	\$4,189,877	76,470	\$1,411,...
	Week 5	\$48,783,399	1,008,329	\$2,751,111	50,302	\$8,322,154	151,923	\$3,010,...
	Week 4	\$25,906,067	528,655	\$1,494,091	27,466	\$4,132,277	75,453	\$1,591,...
	Week 3	\$25,906,067	528,655	\$1,494,091	27,466	\$4,132,277	75,453	\$1,591,...
	Week 2	\$25,906,067	528,655	\$1,494,091	27,466	\$4,132,277	75,453	\$1,591,...
	Week 1	\$39,534,325	801,316	\$2,394,257	41,991	\$7,370,596	126,292	\$2,688,...
	<b>2014 Total</b>	<b>\$1,174,876,032</b>	<b>30,041,048</b>	<b>\$76,265,834</b>	<b>1,619,405</b>	<b>\$207,724,492</b>	<b>4,500,057</b>	<b>\$88,943,0...</b>
<a href="#">2013</a>	Week 52	\$13,628,258	272,662	\$900,166	14,525	\$3,238,319	50,839	\$1,096,...
	Week 51	\$13,628,258	272,662	\$900,166	14,525	\$3,238,319	50,839	\$1,096,...
	Week 50	\$13,628,258	272,662	\$900,166	14,525	\$3,238,319	50,839	\$1,096,...
	Week 49	\$13,628,258	272,662	\$900,166	14,525	\$3,238,319	50,839	\$1,096,...
	Week 48	\$23,706,682	471,237	\$1,916,347	33,655	\$4,924,612	79,136	\$1,773,...
	Week 47	\$23,706,682	471,237	\$1,916,347	33,655	\$4,924,612	79,136	\$1,773,...
	Week 46	\$23,706,682	471,237	\$1,916,347	33,655	\$4,924,612	79,136	\$1,773,...
	Week 45	\$23,706,682	471,237	\$1,916,347	33,655	\$4,924,612	79,136	\$1,773,...
	Week 44	\$48,523,380	961,223	\$4,342,602	68,863	\$10,599,859	170,432	\$4,258,...
	Week 43	\$24,816,698	489,986	\$2,426,255	35,209	\$5,675,247	91,297	\$2,485,...
	Week 42	\$24,816,698	489,986	\$2,426,255	35,209	\$5,675,247	91,297	\$2,485,...
	Week 41	\$24,816,698	489,986	\$2,426,255	35,209	\$5,675,247	91,297	\$2,485,...
	Week 40	\$68,146,075	1,395,716	\$6,152,394	96,903	\$13,375,194	231,045	\$5,918,...
	Week 39	\$43,329,377	905,730	\$3,726,139	61,695	\$7,699,948	139,748	\$3,433,...
	<b>2013 Total</b>	<b>\$383,788,684</b>	<b>7,708,222</b>	<b>\$32,765,950</b>	<b>525,807</b>	<b>\$81,352,467</b>	<b>1,335,014</b>	<b>\$32,548,...</b>
<b>Grand Total</b>		<b>\$1,558,664,716</b>	<b>37,749,270</b>	<b>\$109,031,784</b>	<b>2,145,212</b>	<b>\$289,076,959</b>	<b>5,835,071</b>	<b>\$121,491,...</b>

If you want to see rolling periods in the future, use a negative number for the LASTPERIODS part of the expression. Here is the expression when the 52 is changed to -52. It will calculate the current week and next 51 weeks.

```
COUNT(EXISTS([Time].[Year Weeks].CurrentMember,LASTPERIODS(-52,EXISTS([Time].[Year Weeks].[Weeks].members,[Time].[Year Based Weeks Based].[Year Based].[Current Year].[Current Week]).Item(0))))
```

Here is the refreshed view after making that change. The filter returns Week 37 of 2015 through Week 38 of 2014. The future weeks for actual sales do not have data yet, so those cells are empty in the view. This type of filter would be useful in views that contain measures that have anticipated future data, such as budget or forecast measures.

<b>Company &gt;&gt;</b>		<b>100</b>							
<b>Co Long Description</b>		Fresh to Market Foods, Inc							
<b>RepBroker &gt;&gt;</b>		<b>300</b>		<b>301</b>		<b>302</b>		<b>303</b>	
<b>RepBr Long Description</b>		Nicole Toscano		Patrick Hurley		Mark Fiedler		Michelle Knapp	
<b>Year</b>	<b>Weeks</b>	Actual Sales	Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount
<b>2015</b>	Week 37								
	Week 36								
	Week 35								
	Week 34								
	Week 33								
	Week 32								
	Week 5								
	Week 4								
	Week 3								
	Week 2								
	Week 1								
	<b>2015 Total</b>								
<b>2014</b>	Week 52								
	Week 51								
	Week 50								
	Week 49								
	Week 48								
	Week 47								
	Week 46								
	Week 45								
	Week 44								
	Week 43								
	Week 42								
	Week 41								
	Week 40	\$37,500,634	786,436	\$2,456,915	42,399	\$6,981,694	121,890	\$3,009,195	4
	Week 39	\$37,500,634	786,436	\$2,456,915	42,399	\$6,981,694	121,890	\$3,009,195	4
	Week 38	\$37,500,634	786,436	\$2,456,915	42,399	\$6,981,694	121,890	\$3,009,195	4
	<b>2014 Total</b>	<b>\$112,501,903</b>	<b>2,359,309</b>	<b>\$7,370,746</b>	<b>127,197</b>	<b>\$20,945,082</b>	<b>365,669</b>	<b>\$9,027,586</b>	<b>13</b>
<b>Grand Total</b>		<b>\$112,501,903</b>	<b>2,359,309</b>	<b>\$7,370,746</b>	<b>127,197</b>	<b>\$20,945,082</b>	<b>365,669</b>	<b>\$9,027,586</b>	<b>13</b>

## Expressions for Filtering Levels

Expression filters that reference member values and attribute relationships were used to filter levels in the following examples. The levels referenced in the filters need to be visible in the view in order for the filters to impact the view.

- [Single Member in Expression](#)
- [Multiple Members in Expression](#)
- [Attribute Relationships in Expression](#)

---

**Note:** These same types of expressions can be used when creating dynamic user lists.

---

### Single Member in Expression

This expression returns Customer Sold-To members with values greater than 150280. You can adjust the filter quickly to return different results by changing out the > symbol in the expression for other symbols (such as <) or by changing the "150280" in the expression to a different value.

[Customer Sold-To].[Customer Sold-To].CurrentMember.Name > "150280"

View Name: <i>Expression Filter with Member</i>							
View Filter							
	<b>Product Brand &gt;&gt;</b>	<a href="#">001</a>					<a href="#">002</a>
	<b>PBrnd Long Description</b>	Tip Top					Dew Dr
<b>Customer Sold-To</b>	<b>SldTo Long Description</b>	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Amount Jan 2014 to Sep 2014	YTD % of Total	Actual Sales Sales Units Sep 2014 to Sep 2014	Actual Sales Sales Amount Sep 2014 to Sep 2014	Actual S Sales U Jan 2014 to Sep 2014
<a href="#">150290</a>	Montelissi Distribution	43,082	\$2,462,797	10%	5,130	\$319,989	43,082
<a href="#">150300</a>	Auburn Providers	43,387	\$2,658,087	10%			69,469
<a href="#">150310</a>	Maple Tree Foods	36,752	\$2,266,995	9%	12,409	\$797,832	69,469
<a href="#">150320</a>	Quebec Foods	30,795	\$1,653,760	6%	5,846	\$383,155	43,082
<a href="#">150330</a>	Canadian Imports	37,630	\$2,453,227	9%	5,697	\$382,779	87,149
<a href="#">150340</a>	Alberta Foods	41,301	\$2,415,657	9%			69,469
<a href="#">150350</a>	Chicago's Finest	54,234	\$3,468,513	13%	11,812	\$782,800	345,935
<a href="#">150360</a>	St. Louis Distributors	41,581	\$2,296,830	9%	6,085	\$374,624	43,082
<a href="#">150370</a>	Southwest Foods	34,992	\$2,080,132	8%	17,718	\$1,141,874	43,082
<a href="#">150380</a>	Packingham Foods	50,805	\$2,910,259	11%	5,816	\$384,567	77,265
<a href="#">150390</a>	Pacific Providers	23,249	\$1,205,925	5%			15,833
<b>Grand Total</b>		<b>437,809</b>	<b>\$25,872,183</b>	<b>100%</b>	<b>70,514</b>	<b>\$4,567,621</b>	<b>594,935</b>

### Multiple Members in Expression

This expression filter returns Customer Sold-To members in a range that is greater than or equal to 150280 and less than or equal to 150350.

[Customer Sold-To].[Customer Sold-To].CurrentMember.Name >= "150280" AND [Customer Sold-To].[Customer Sold-To].CurrentMember.Name <= "150350"

View Name: <i>Expression Filter with Member</i>							
View Filter							
	<b>Product Brand &gt;&gt;</b>	<a href="#">001</a>					<a href="#">002</a>
	<b>PBrnd Long Description</b>	Tip Top					Dew Drc
<b>Customer Sold-To</b>	<b>SldTo Long Description</b>	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Amount Jan 2014 to Sep 2014	YTD % of Total	Actual Sales Sales Units Sep 2014 to Sep 2014	Actual Sales Sales Amount Sep 2014 to Sep 2014	Actual Sa Sales Un Jan 2014 Sep 201
<a href="#">150280</a>	New York Foods	32,484	\$2,075,524	11%	6,085	\$358,317	48
<a href="#">150290</a>	Montelissi Distribution	43,082	\$2,462,797	13%	5,130	\$319,989	45
<a href="#">150300</a>	Auburn Providers	43,387	\$2,658,087	14%			69
<a href="#">150310</a>	Maple Tree Foods	36,752	\$2,266,995	12%	12,409	\$797,832	65
<a href="#">150320</a>	Quebec Foods	30,795	\$1,653,760	9%	5,846	\$383,155	46
<a href="#">150330</a>	Canadian Imports	37,630	\$2,453,227	13%	5,697	\$382,779	81
<a href="#">150340</a>	Alberta Foods	41,301	\$2,415,657	12%			64
<a href="#">150350</a>	Chicago's Finest	54,234	\$3,468,513	18%	11,812	\$782,800	34
<b>Grand Total</b>		<b>319,666</b>	<b>\$19,454,561</b>	<b>100%</b>	<b>46,979</b>	<b>\$3,024,872</b>	<b>456</b>

### Attribute Relationships in Expression

This filter returns Product Category members that have the text 'fruit' in their PCat Long Description attribute relationship.

(INSTR(1, [Product Category].[Product Category].CurrentMember.Properties("PCat Long Description"), "Fruit") <> 0)

View Name: <i>Expression Filter with AR</i>							
View Filter							
		Actual Sales Sales Amount Wk 1 2014 to Wk 38 2014	% of Total	Actual Sales Sales Units Wk 1 2014 to Wk 38 2014	% of Total	Actual Sales Sales Amount Wk 38 2014 to Wk 38 2014	Actual Sales Sales Units Wk 38 2014 to Wk 38 2014
<a href="#">201</a>	<b>Canned Fruit</b>	\$1,979,809,747	83.39%	45,351,254	83.38%	\$58,950,296	1,123,590
<a href="#">204</a>	Fresh Fruit	\$294,627,014	12.41%	7,243,387	13.32%	\$11,084,764	223,802
<a href="#">207</a>	Frozen Fruit Products	\$99,856,357	4.21%	1,794,107	3.30%	\$3,193,268	45,582
<b>Grand Total</b>		<b>\$2,374,293,118</b>	<b>100.00%</b>	<b>54,388,749</b>	<b>100.00%</b>	<b>\$73,228,327</b>	<b>1,392,973</b>

## Expressions for Filtering an Axis

The following examples show an axis filter that uses just measure items and an axis filter that uses a measure item and attribute relationship. A table containing more example expressions follows these two examples.

Note that expressions that reference attribute relationships should use an IIF statement to check whether or not the level for the attribute relationship is visible. The second example that follows shows the impact of using an IIF statement.

- [Example 1 - Two Measure Items in Axis Filter](#)
- [Example 2- Measure Item and Attribute Relationship in Axis Filter](#)
- [More Example Expressions](#)

### Example 1 - Two Measure Items in Axis Filter

This axis filter on columns returns columns where Avg Selling Price is greater than or equal to \$75.00 and Profit is greater than \$50,000.

[Measures].[Data6 (Avg Selling Price)]>=75 AND [Measures].[Data8 (Profit)]>50000

Product >>	FrtCktail 6oz LnchPk BR* 0A	Pear 6oz LnchPk LS 0B	Peach 6oz LnchPk BR* 0B	FrtCktail 6oz LnchPk BR* 0B	FrtCktail 6oz LnchPk BR*
Sales Amount	\$216,087	\$249,990	\$240,896	\$432,175	\$237,6
Sales Return Amount	(\$23,795)	(\$22,981)	(\$19,987)	(\$47,591)	(\$26,1
Sales After Returns	\$192,292	\$227,009	\$220,909	\$384,584	\$211,5
Sales Units	2,545	2,840	2,738	5,089	2,7
Sales Return Units	(331)	(268)	(233)	(590)	(3
Avg Selling Price	\$84.92	\$88.02	\$87.98	\$84.92	\$84
Actual Cost	\$138,142	\$173,177	\$154,078	\$276,284	\$151,9
Profit	\$54,150	\$53,832	\$66,831	\$108,299	\$59,5

Here is the Expression window for the filter.

**EXPRESSION - COLUMNS** X

View Items and Functions	Expression
<ul style="list-style-type: none"> <li>▶ Hierarchies</li> <li>▶ Measure Items                             <ul style="list-style-type: none"> <li>☑ Data1 (Sales Amount)</li> <li>☑ Data2 (Sales Return Amount)</li> <li>☑ Data7 (Sales After Returns)</li> <li>☑ Data4 (Sales Units)</li> <li>☑ Data3 (Sales Return Units)</li> <li>☑ Data6 (Avg Selling Price)</li> <li>☑ Data5 (Actual Cost)</li> <li>☑ Data8 (Profit)</li> </ul> </li> <li>▶ Functions</li> </ul>	<pre>[Measures].[Data6 (Avg Selling Price)]&gt;=75 AND [Measures].[Data8 (Profit)]&gt;50000</pre>



**Example 2 - Measure Item and Attribute Relationship in Axis Filter**

This axis filter on rows returns rows where the Product sales for the current period of the current year are greater than \$150,000 and the Prod ABC Classification for the Product is A. The first part of the expression contains the sales measure item criteria, and the second part contains the attribute relationship criteria.

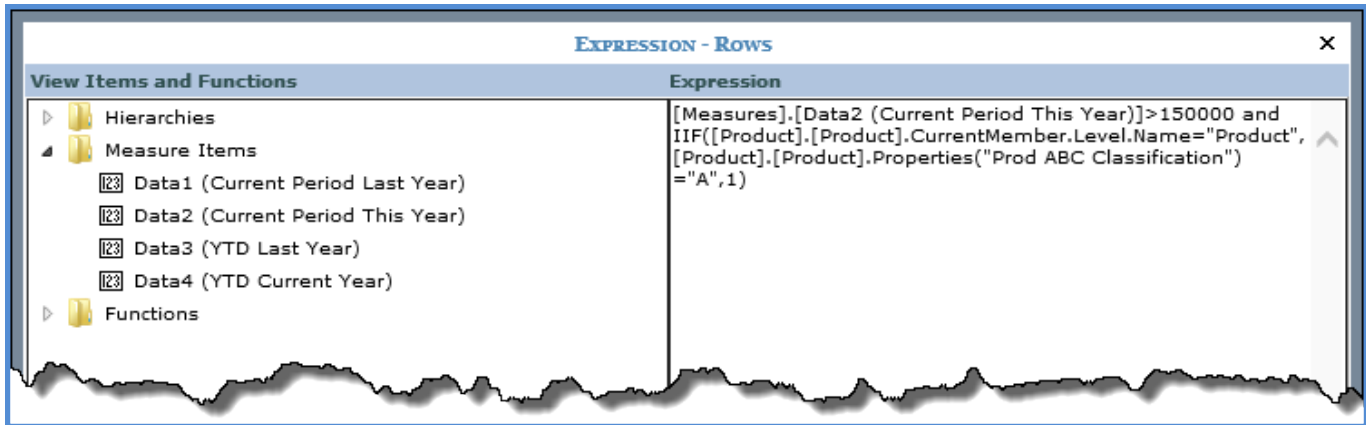
The IIF statement in the second part checks that the level for the attribute relationship referenced in the expression is visible in rows. In this case, the level is visible so Stratum.Viewer considers that filter condition when executing the filter. If the level had not been visible, the condition would have been ignored while executing the filter.

```
[Measures].[Data2 (Current Period This Year)]>150000 and
IIF([Product].[Product].CurrentMember.Level.Name="Product",[Product].[Product].Properties("Prod ABC Classification")="A",1)
```

**Note:** The portion of the above MDX that checks for the level visibility references the name of the dimension and hierarchy for the level -- in this case [Product].[Product]. The hierarchy name is needed in cases where there are multiple hierarchies within the same dimension.

RepBroker	Product	Prod ABC Classification	Current Period Last Year	Current Period This Year	YTD Last Year	YTD Current Year
300	Pear 6oz LnchPk LS 5B	A	\$321,653	\$255,774	\$13,178,521	\$7,500,585
	Pnappl Slcs 12oz PL* 5B	A	\$208,384	\$168,596	\$9,366,632	\$5,309,002
	Pear 6oz LnchPk LS 5D	A	\$192,992	\$153,464	\$7,907,113	\$4,500,351
	Pear 6oz LnchPk LS 5E	A	\$209,074	\$166,253	\$8,566,039	\$4,875,381
	Pear 6oz LnchPk LS 5F	A	\$225,157	\$179,042	\$9,224,965	\$5,250,410
	Pear 6oz LnchPk LS 5G	A	\$241,240	\$191,831	\$9,883,891	\$5,625,439
	Pear 6oz LnchPk LS 5H	A	\$257,322	\$204,619	\$10,542,817	\$6,000,468
	Pear 6oz LnchPk LS 5I	A	\$273,405	\$217,408	\$11,201,743	\$6,375,498
	Pear 6oz LnchPk LS 5J	A	\$289,487	\$230,197	\$11,860,669	\$6,750,527
	Pnappl Slcs 12oz PL* 5I	A	\$187,545	\$151,736	\$8,429,969	\$4,778,101

This is the Expression window for the filter.



Here's what the view would look like if you were to drill up to RepBroker. Only the [Measures].[Data2 (Current Period This Year)]>150000 part of the axis filter expression is executed since Product is no longer visible.

**View Name: Axis Filter on Rows**

**View Filter**

<a href="#">RepBroker</a>	Current Period Last Year	Current Period This Year	YTD Last Year	YTD Current Year
<a href="#">300</a>	\$43,329,377	\$37,500,634	\$2,034,499,253	\$1,161,247,774
<a href="#">301</a>	\$3,726,139	\$2,456,915	\$132,397,108	\$75,365,668
<a href="#">302</a>	\$7,699,948	\$6,981,694	\$352,265,971	\$204,486,173
<a href="#">303</a>	\$3,433,655	\$3,009,195	\$153,524,572	\$87,846,078
<a href="#">304</a>	\$2,283,987	\$2,626,736	\$155,507,823	\$89,707,395
<a href="#">305</a>	\$17,916,802	\$15,022,164	\$877,750,849	\$510,513,452
<a href="#">306</a>	\$5,058,991	\$4,504,960	\$196,770,700	\$114,729,358
<a href="#">307</a>	\$1,409,623	\$1,117,367	\$57,488,785	\$33,992,154
<a href="#">308</a>	\$4,269,497	\$3,347,914	\$158,242,107	\$89,149,261
<a href="#">309</a>	\$2,573,712	\$2,815,224	\$127,422,712	\$72,776,501
<a href="#">312</a>	\$11,923,874	\$10,408,297	\$548,158,596	\$315,109,984
<a href="#">313</a>	\$16,772,903	\$14,197,829	\$735,352,351	\$418,232,088
<a href="#">315</a>	\$4,062,845	\$3,499,178	\$180,284,697	\$105,410,011
<a href="#">318</a>	\$950,798	\$1,471,982	\$69,800,032	\$40,668,788
<b>Grand Total</b>	<b>\$125,412,150</b>	<b>\$108,960,090</b>	<b>\$5,779,465,556</b>	<b>\$3,319,234,685</b>

### More Example Expressions

Desired Results...	Example Axis Filter
For all levels, Average Selling Price is >= 75 and Profit > 50,000.	[Measures].[Data6 (Avg Selling Price)]>=75 And [Measures].[Data8 (Profit)]>50000
When at Product level, will return rows where Prod ABC Classification = "A" AND Actual Sales Sales Units Jan 2014 to Sep 2014 is > 150,000. When at any other level - Actual Sales Sales Units Jan 2014 to Sep 2014 is > 150,000.	[Measures].[Data1 (Actual Sales Sales Units Jan 2014 to Sep 2014)]>150000 and IIF([Product].[Product].CurrentMember.Level.Name="Product", [Product].[Product].Properties("Prod ABC Classification")="A", 1)

Only for the Product level, return rows where Prod ABC Classification = "A" AND Actual Sales Sales Units Jan 2014 to Sep 2014 is > 150,000. When at any other level – No filter applied.	IIF([Product].[Product].CurrentMember.Level.Name="Product" , IIF ([Product].[Product].Properties("Prod ABC Classification")="A" AND [Measures].[Data1 (Actual Sales Sales Units Jan 2014 to Sep 2014)]>150000, 1,0) , 1)
When at Product level, will return rows where Actual Sales Sales Units Jan 2014 to Sep 2014 is > 150,000. When at any other level - Actual Sales Sales Units Jan 2014 to Sep 2014 is > 10,000,000.	IIF([Product].[Product].CurrentMember.Level.Name="Product" , IIF ([Measures].[Data1 (Actual Sales Sales Units Jan 2014 to Sep 2014)]>150000, 1,0) , [Measures].[Data1 (Actual Sales Sales Units Jan 2014 to Sep 2014)] > 10000000)
When at Product level, will return rows where Prod ABC Classification = "A" AND Actual Sales Sales Units Jan 2014 to Sep 2014 is > 150,000. When at any other level - Actual Sales Sales Units Jan 2014 to Sep 2014 is > 10,000,000.	IIF([Product].[Product].CurrentMember.Level.Name="Product" , IIF ([Product].[Product].Properties("Prod ABC Classification")="A" AND [Measures].[Data1 (Actual Sales Sales Units Jan 2014 to Sep 2014)]>150000, 1,0) , [Measures].[Data1 (Actual Sales Sales Units Jan 2014 to Sep 2014)] > 10000000)

### Examples of Sorts and Filters on Totals

This view displays year to date (YTD) sales data by Sales Director and UPC Global Number. A filter has been applied to the total column for the current year YTD sales. The result is a view where the only detail sales data on display for each Sales Director is that of Products that make up the top 20 percent of total YTD sales.

The screenshot shows a data table with columns for Sales Director, UPC Global Number, UPC Long Description, and Actual Sales YTD for 2013 and 2014. A red box highlights the 'Actual Sales YTD 2014' column, with a tooltip indicating a 'Top Percent 20' filter is applied. The table includes a 'Grand Total' row at the bottom.

	Sales Dir >>	Helen Briggs		Steve Mentas		Total	
UPC Global Number	UPC Long Description	Actual Sales YTD 2014	Actual Sales YTD 2013	Actual Sales YTD 2014	Actual Sales YTD 2013	Actual Sales YTD 2014	Actual Sales YTD 2013
0 - 13800 - 30321 - 9	Frozen Lasagna Dinner	\$67,474,884	\$114,640,211	\$52,791,395	\$91,799,773	\$120,266,278	\$205,439,985
0 - 13800 - 78934 - 9	Meatloaf, Frozen	\$62,969,705	\$109,019,253	\$53,046,268	\$88,655,860	\$116,015,974	\$197,675,113
0 - 24000 - 12431 - 4	Applesauce 106oz PL*	\$61,198,544	\$102,926,472	\$39,810,495	\$66,757,441	\$101,009,039	\$169,683,913
0 - 02749 - 25408 - 6	Asparagus	\$54,327,537	\$90,241,412	\$36,101,356	\$61,306,990	\$90,428,893	\$151,548,403
0 - 06403 - 92736 - 2	Orange Juice Conc.	\$50,270,451	\$84,207,881	\$33,523,552	\$56,420,498	\$83,794,003	\$140,628,378
0 - 02749 - 99267 - 6	Cherries, Bing	\$42,383,321	\$73,262,012	\$31,376,355	\$52,936,770	\$73,759,676	\$126,198,782
<b>Grand Total</b>		<b>\$338,624,442</b>	<b>\$574,297,241</b>	<b>\$246,649,422</b>	<b>\$416,877,332</b>	<b>\$585,273,863</b>	<b>\$991,174,573</b>

In this example, quarterly sales data is displayed by Distribution Center Warehouse and Customer Ship-To. A filter has been applied to the total column for the current year, current quarter sales. The result is a view where the detail data on display is Customer Ship-To's with total sales greater than \$2,000,000. Also, a sort was applied to the same total column to organize the Customer Ship-To's in descending order.

<span>View Name: <i>Ship-To Analysis by Warehouse</i></span> <span>1 to 50 of 79</span> <span>1 to 6 of 6</span> <span>Viewer</span>						
View Filter						
Distribution Center Warehouse >>	19		21		>= 2000000 Total	
Customer Ship-To	Actual Sales Amount Q3 2014	Actual Sales Amount Q3 2013	Actual Sales Amount Q3 2014	Actual Sales Amount Q3 2013	▼ Actual Sales Amount Q3 2014	Actual Sales Amount Q3 2013
<a href="#">Wilder Foods -- St Louis MO WOB</a>	\$3,784,881	\$3,784,881	\$4,611,329	\$4,611,829	\$8,396,209	\$8,396,209
<a href="#">Wilder Foods -- St Louis MO WOJ</a>	\$3,406,393	\$3,406,393	\$4,150,196	\$4,150,196	\$7,556,588	\$7,556,588
<a href="#">Wilder Foods -- St Louis MO WOJ</a>	\$3,217,149	\$3,217,149	\$3,919,629	\$3,919,629	\$7,136,778	\$7,136,778
<a href="#">Wilder Foods -- St Louis MO</a>	\$3,045,002	\$3,045,002	\$3,701,887	\$3,701,887	\$6,746,889	\$6,746,889
<a href="#">Wilder Foods -- St Louis MO WOH</a>	\$3,027,905	\$3,027,905	\$3,689,063	\$3,689,063	\$6,716,967	\$6,716,967
<a href="#">Wilder Foods -- St Louis MO WOG</a>	\$2,838,660	\$2,838,660	\$3,458,496	\$3,458,496	\$6,297,157	\$6,297,157
<a href="#">Wilder Foods -- St Louis MO WOF</a>	\$2,649,416	\$2,649,416	\$3,227,930	\$3,227,930	\$5,877,347	\$5,877,347
<a href="#">Wilder Foods -- St Louis MO WOE</a>	\$2,460,172	\$2,460,172	\$2,997,364	\$2,997,364	\$5,457,536	\$5,457,536
<a href="#">Wilder Foods -- Buffalo NY WOB</a>	\$2,537,763	\$2,537,763	\$2,548,447	\$2,548,447	\$5,086,210	\$5,086,210
<a href="#">Wilder Foods -- St Louis MO WOD</a>	\$2,270,928	\$2,270,928	\$2,766,797	\$2,766,797	\$5,037,726	\$5,037,726
<a href="#">Wilder Foods -- St Louis MO WOC</a>	\$2,081,684	\$2,081,684	\$2,536,231	\$2,536,231	\$4,617,915	\$4,617,915
<a href="#">Wilder Foods -- Buffalo NY WOJ</a>	\$2,283,987	\$2,283,987	\$2,293,602	\$2,293,602	\$4,577,589	\$4,577,589
<a href="#">Wilder Foods -- Buffalo NY WOI</a>	\$2,157,098	\$2,157,098	\$2,166,180	\$2,166,180	\$4,323,278	\$4,323,278

## Advanced Select Members Window

ADVANCED SELECT MEMBERS: UPC GLOBAL NUMBER

apple  Search By: UPC Long Description Starts with

<input type="checkbox"/> UPC Long Description ▲	UPC Global Number	UPC ABC Classification
<input type="checkbox"/> Apple Filling 106oz BR*	0 - 24000 - 12422 - 4	B
<input type="checkbox"/> Apple Filling 106oz PL*	0 - 24000 - 12529 - 4	A
<input type="checkbox"/> Apple Filling 12oz BR*	0 - 24000 - 12522 - 4	B
<input type="checkbox"/> Apple Filling 12oz PL*	0 - 24000 - 12429 - 4	A
<input type="checkbox"/> Apples Red Delicious	0 - 39484 - 92837 - 1	B

1 to 5 of 5

<input type="checkbox"/> UPC Long Description ▲	UPC Global Number	UPC ABC Classification
<input type="checkbox"/> Applesauce 106oz BR*	0 - 24000 - 12430 - 4	A
<input type="checkbox"/> Applesauce 106oz PL*	0 - 24000 - 12431 - 4	A
<input type="checkbox"/> Applesauce 12oz BR*	0 - 24000 - 12530 - 4	A
<input type="checkbox"/> Applesauce 12oz PL*	0 - 24000 - 12531 - 4	A


1 to 4 of 4

OK Cancel More... Help

1

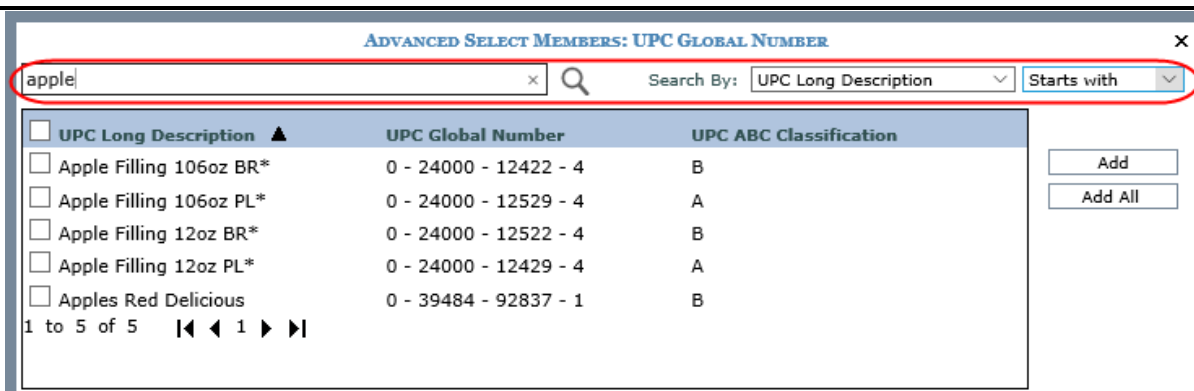
Use the search properties to specify the criteria and the parameters by which to search for members to be used in the member list. That list can be used as a level filter, to create a user list, or to help build an expression.

**Note:** The window also is used when administrators set up roles.

Click the search icon  after you specify your search properties:

- Enter a value in the search field. Multiple values can be entered by separating them with a semicolon. If the field is left blank, the available list displays all members for the active level.
- Optionally use the Search By drop-down lists. The first list is to select the attribute relationship to perform the search on. The other list lets you choose whether you want your search to contain, not contain, start with, be equal to, not equal to, greater than, or less than the value(s) specified in the search.

In the following example, we searched for UPC long descriptions starting with “apple” and 5 items were retrieved.



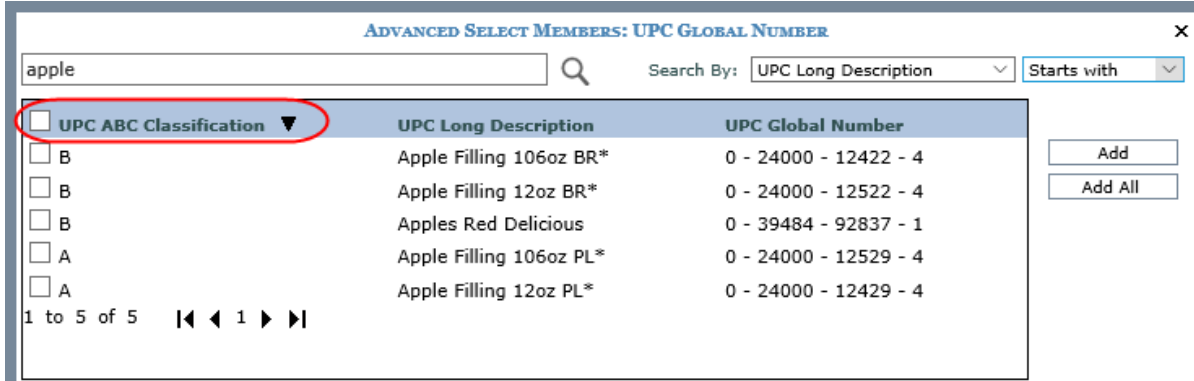
2

**Available Selection list** – The list area displays members returned by your search. Click checkboxes next to members then click Add to move the selected members to the bottom portion of the window. Click OK when you are done making various member selections.

Other options and tips:

- Selecting members in the top portion of the window then clicking OK will add the selected members to a filter and close the window.
- Click the checkbox in the heading area to select or deselect all members on all pages in the list at once.
- Use Shift+Click as a shortcut to selecting a range of consecutive members (click the first item, then press Shift key while clicking the last item).
- Click Add All to add all of the available members, from all pages, to the selected list in the bottom portion of the window.

Columns in this area are sort and drag/drop enabled. In the following example, we clicked the UPC ABC Classification column and dragged it to the first position. We also clicked the Sort icon and changed the sort from ascending to descending.



Use the paging arrows and links at the bottom of the list to move between pages of members. Selections made on various pages are retained as you move between pages in the list.

**Note:** For all windows that display lists (views, user lists, etc.), there is a single administrative setting on the Application window that controls the page size.

3

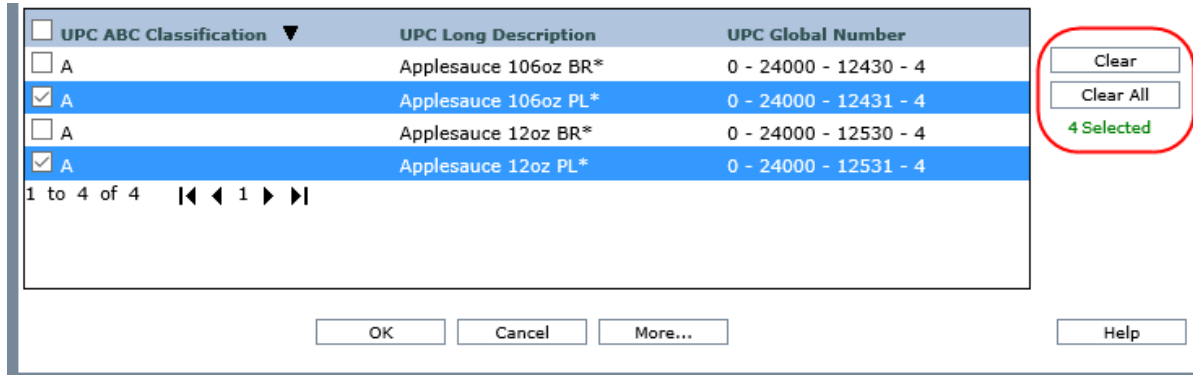
**Selected list** - displays the members selected for the member list. A count under the Clear All button indicates how many members are included in the member list filter.

To clear members, click checkboxes next to members you want to remove from the filter and then click Clear when you are done making selections.

Other options and tips:

- Use the checkbox in the heading area to select or deselect all members on all pages in the list at once.
- Use Shift+Click as a shortcut to selecting a range of consecutive members (click the first item, then press Shift key while clicking the last item).
- Click Clear All to clear all of the members, from all pages of the selected list.

In the following example, there are four items in the filter and two have been selected with the intention of clearing them. After the Clear button is clicked, the filter will contain only two items.



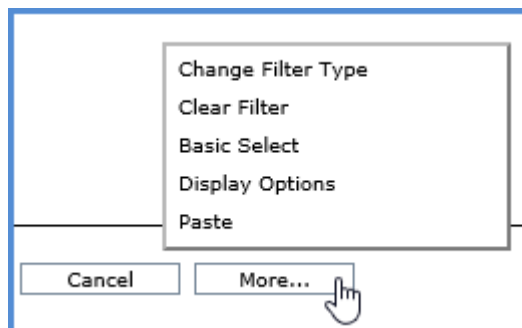
Use the paging arrows and links at the bottom of the list to move between pages of members. Selections made on various pages are retained as you move between pages in the list.

**Note:** For all windows that display lists (views, user lists, etc.), there is a single administrative setting on the Application window that controls the page size.

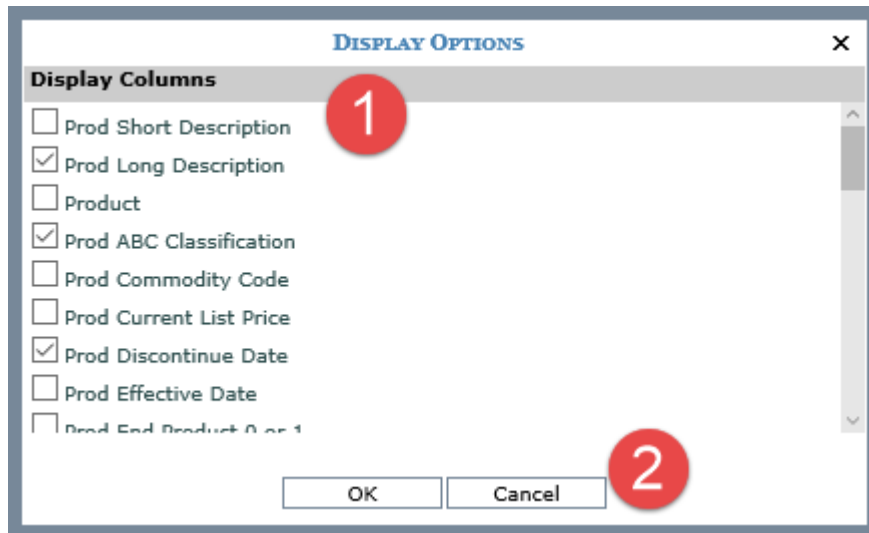
4

**More...** -- Click the More button for additional features:

- **Change Filter Type** – Click to access the Select Filter Method window if you need to apply a different type of filter to the level (User List, Named Set, or Expression).
- **Clear Filter** – Click as a shortcut to clearing the filter from the level.
- **Basic Select** – Click to access the Select Members window. This option may not display depending on administrative settings for the level. Administrators determine which version(s) of the window are available by dimension.
- **Display Options** – Use to change the display columns in this window. You can display up to 10 display columns for a level in the Advanced Select Members window.
- **Paste** – Click to access the Paste Members window, which lets you copy a list of members into the member list that you are building.



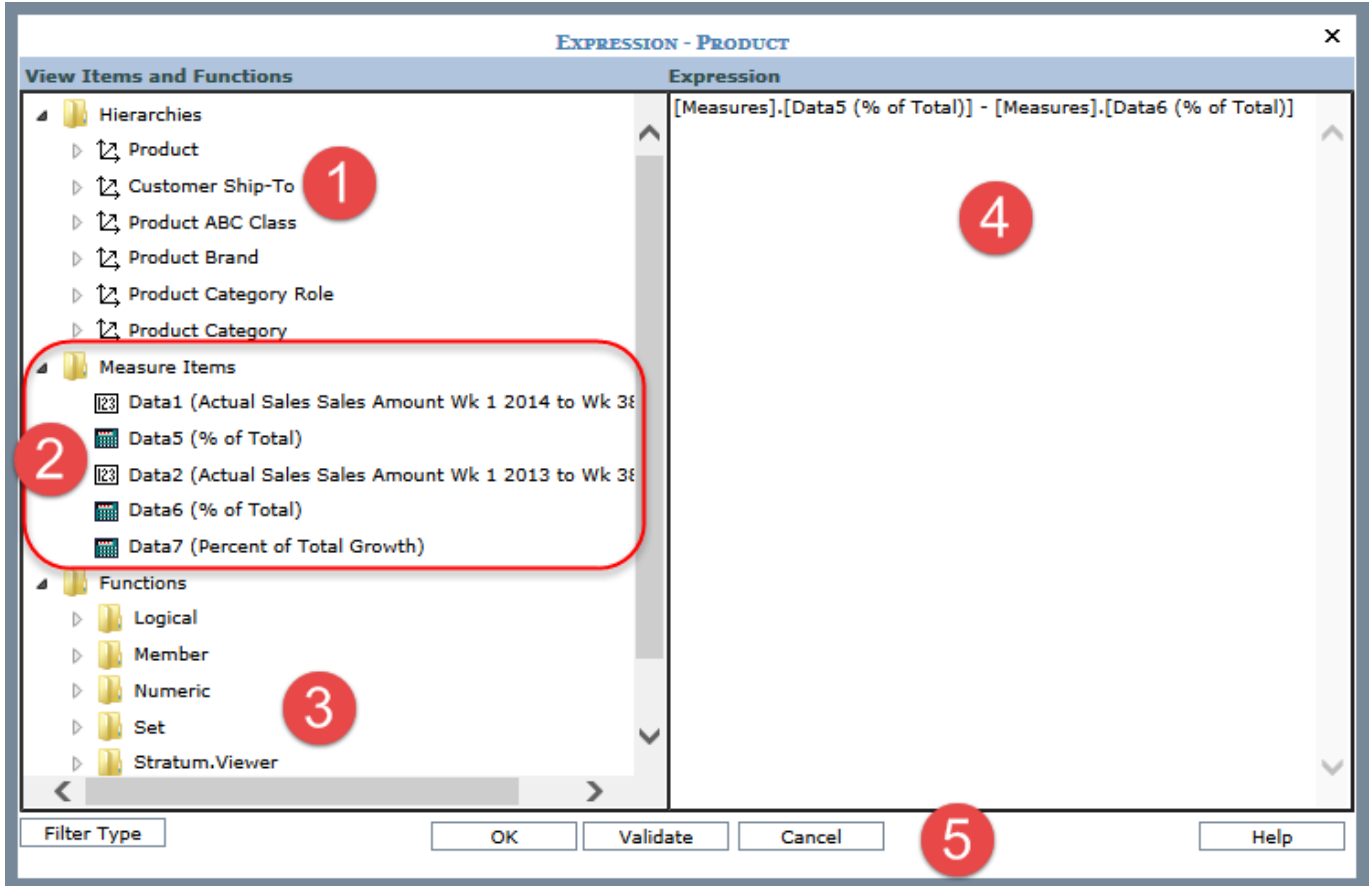
## Display Options Window for Select and Advanced Select Members Windows



<p>1</p>	<p><b>Display Columns</b> - Select or deselect columns to control the information that displays on the <a href="#">Select Members</a> and <a href="#">Advanced Select Members windows</a>. Up to 10 columns of information can be displayed. The columns that display by default depend on where you accessed the window from within Stratum.Viewer. If accessed from views, the default columns are what's displayed in the grid. Up to the first 10 attribute relationships used in the view will be used as display columns. If accessed from windows such as User List Maintenance, the default columns are determined by administrator settings in the Select Members Options window. Up to the first 10 attribute relationships selected in administrator settings will be used as display columns.</p>
<p>2</p>	<p><b>OK</b> - Clicking OK applies the changes for the current session only in the Select and Advanced Select Members windows. When you toggle back and forth between the two windows, the changes will be reflected in both windows. Once you exit the windows, display options return to their defaults.</p>



## Expression Window for Views



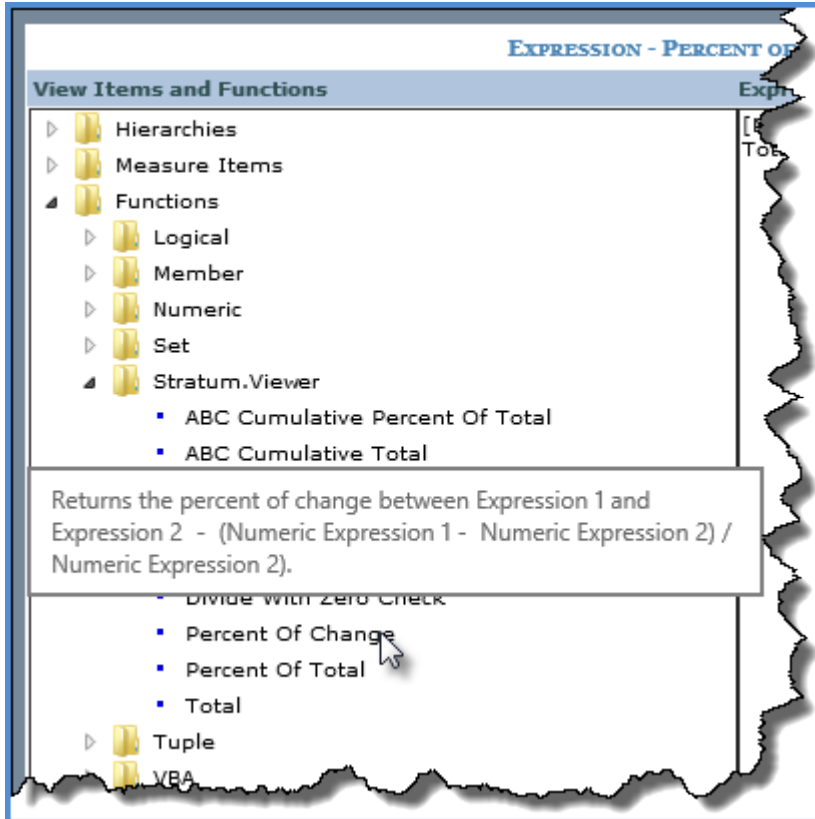
**1 Hierarchies** – Hierarchies, levels, and attribute relationships that are part of the view definition will appear in the View Items and Function portion of the Expression window. They appear in the same order as in the view explorer and regardless of whether or not they are visible or actively showing in the grid.

Levels can be expanded to see the Attribute Relationships and Members folders. If attribute relationships were selected for the level, they will display when the Attribute Relationships folder is expanded.

	<ul style="list-style-type: none"> <li>• <b>Levels and Attribute Relationships</b> - Click a level or attribute relationship to add it to the expression. Objects can also be drag and dropped into the Expression portion of the window.</li> <li>• <b>Members</b> - Another tool for building the expression is the Members folder. Click it to access the <a href="#">Select Filter Method window</a>. From there, you can access the <a href="#">Select</a> or <a href="#">Advanced Select Members</a> window. This allows you to select specific members for the expression. Or, you can access the <a href="#">Named Set window</a> and select a named set for the expression in cases when you are working with a single level time dimension.</li> </ul> <p>When you add objects in this manner to the Expression, they are added in MDX format. That format includes a reference to the object dimension and hierarchy. The standard MDX format for objects commonly used in expressions follows.</p> <ul style="list-style-type: none"> <li>• <b>Level</b> - [Dimension name].[Hierarchy name].[Level name].members</li> <li>• <b>Attribute Relationship</b> - [Dimension name].[Hierarchy name].Properties("Attribute Relationship name")</li> <li>• <b>Member</b> - [Dimension name].[Hierarchy name].[Level name].[Member value]</li> </ul> <p>You can also add objects to the expression by typing directly in the Expression portion of the window.</p>
<p>2</p>	<p><b>Measure Items</b> – The Measure Items section lists all the measure items associated with the view. Each measure item displays as Name (Caption). The name is the unique identifier associated with the measure item, which can be seen in the <a href="#">Properties window for the measure item</a>. The caption makes it user friendly. They appear in the same order as in the view explorer.</p> <p>You can include measure items as part of the expression using any of the following methods:</p> <ul style="list-style-type: none"> <li>• Select measure items by clicking or drag and drop.</li> <li>• Key in measure item names and captions directly in the Expression portion of the window in proper MDX format:  <pre>[Measures].[Name(Caption)]</pre> <p>where Name is the unique identifier that you can see for the measure item displayed in the Measure items folder of the expression window and Caption is the text that identifies the measure item in the view (caption also shows next to the Name for the measure item in the Measure Items folder).</p> </li> </ul>
<p>3</p>	<p><b>Functions</b> – A Functions folder provides you with logical, member, numeric, set, Stratum.Viewer-specific, tuple, and VBA functions that can be used for building the calculated or distinct calculated measure item expression. You can select a function by clicking, double clicking, or drag and drop. You can also key in a function directly in the Expression portion of the window.</p> <p>If you select a function for your expression, then the formula for it will display in the Expression section and each parameter will be enclosed in double arrows (&lt;&lt; &gt;&gt;). Function parameters enclosed in double arrows, such as «PARAMETER», are required. Parameters enclosed in brackets and double arrows, such as [«PARAMETER»], are optional. You can highlight each parameter and type over it directly in the Expression section. Or you can click the needed element from the tree structure in the window and it will be inserted into that section of the function.</p> <p>The Stratum.Viewer folder includes custom functions, such as cumulative and percent of total functions. If you use them in an expression, they will be preceded by a pound sign (#) to distinguish them from standard MDX functions. The Stratum.Viewer specific functions are:</p> <ul style="list-style-type: none"> <li>• ABC Cumulative Percent of Total</li> <li>• ABC Cumulative Total</li> <li>• Achievement Percent</li> </ul>

- Cumulative Percent of Total
- Cumulative Total
- Divide With Zero Check
- Percent of Change
- Percent of Total
- Total

There are pop-up labels for all functions, and they give you a brief description of the functions.



4

**Expression** – This section shows the MDX expression for the measure item, level filter, or axis filters.

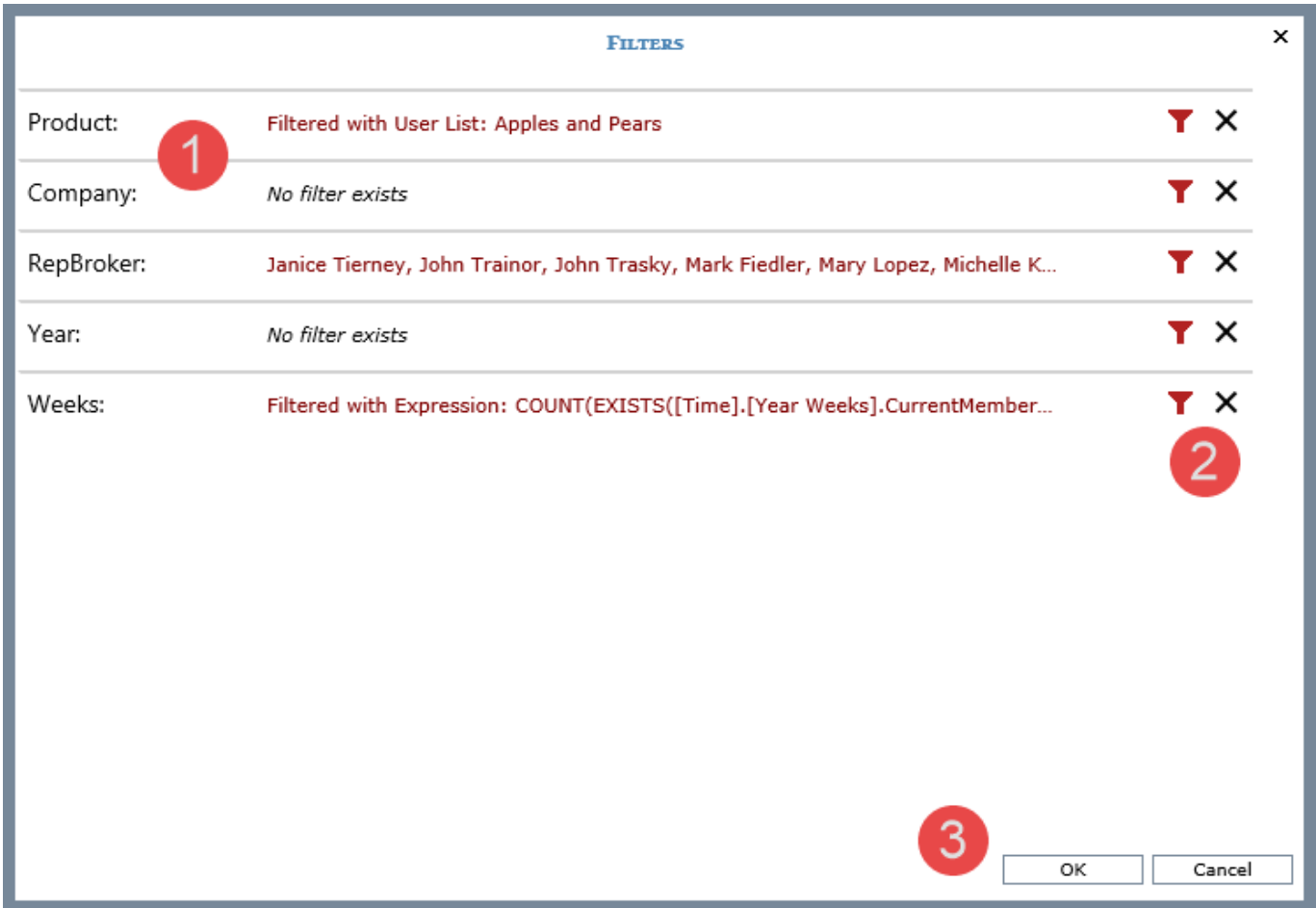
**Note:** Objects not visible in a view or not part of a view definition can be used in an expression by manually entering them into the Expression portion of the window. You must refer to them by their valid MDX format and they must exist in the cube associated with the view.

5

**Filter Type** – When you access this window from a view to create a level filter, it will include this button. Click to access the Select Filter Method window if you need to apply a different type of filter to the level (Member List, User List, Named Set).

**Validate** – Click the Validate button at any point while you are building the expression. Stratum.Viewer will verify whether or not the format of your expression is valid. If you do not click the Validate button while building the expression, then validation will be performed once you click the OK button.

## Filters Window



1




Each level that is available (not hidden) in a view will display in the Filters window. The level name will be followed by details about any filtering applied to the level.

- **Member Filter** – Members in the filter will be listed after the level name. The RepBroker level in the previous image has a member filter applied to it.
- **User List Filter** – The text “Filtered with User List:” will display followed by the name of the user list. The Product level in the previous image has a user list filtered applied to it.
- **Named Set Filter** – The text “Filtered with Named Set:” will display followed by the name of the named set.
- **Expression Filter** – The text “Filtered with Expression:” will display followed by the expression. The Weeks level in the previous image has an expression filter applied to it.
- **No filter exists** – This text will display next to levels that do not have a filter applied to them. This text also displays for cases where a level is filtered but not yet drilled to in the view at the time the Filters window was accessed.

If a level's filter information has a series of dots “...” at the end of it, click the dots to activate a cursor. This enables you to scroll right and see the rest of the filter details for the level. In this example, the dots for the RepBroker details were clicked.

Janice Tierney, John Trainor, John Trasky, Mark Fiedler, Mary Lopez, Michelle K...



	<p>A cursor displayed, and at this point I could scroll right if I wanted to see names of the rest of the members in the RepBroker member filter.</p> 
<p>2</p>	<p>Each level has icons available for adding or changing or for clearing filters for the respective level.</p> <ul style="list-style-type: none"> <li>• Change Filter  – Click this icon to add or change a filter. When you are setting up a new filter, the <a href="#">Select Members window</a> will display. If you want to set up a different type of filter than a member filter, click the Filter Type button and select the filter type from the <a href="#">Select Filter Method window</a> that displays. If you click the icon to change a filter, the window for the type of filter applied to the level will display. For example, if the level has a user list filter applied to it, the <a href="#">Select User List Filter window</a> will display.</li> <li>• Clear Filter  – Click this icon to remove a filter for a level.</li> </ul>
<p>3</p>	<p><b>OK</b> – Click OK to apply all the changes that you made to level filters.</p> <p><b>Cancel</b> – Click Cancel to close the window without applying your changes.</p>

## Grid Pop-up Menu

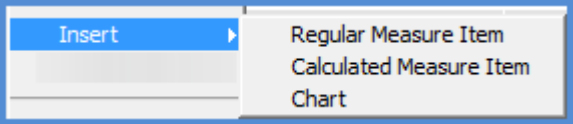
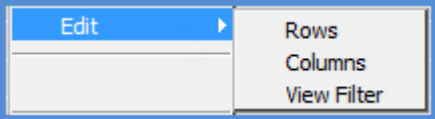
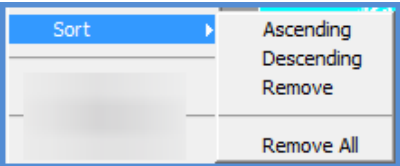
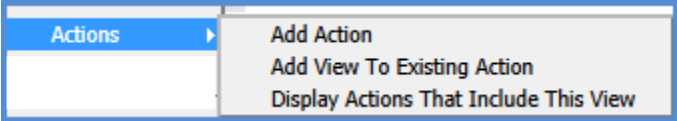
Right-click objects in views to display available functionality for them such as inserting measure items, transposing the grid, filtering objects in the grid, and so forth. Many of the functions can also be controlled through view explorer and the Properties window, giving you several ways to make changes. Options on pop-up menu vary by user. Your user profile level determines which options are available to you. The menus in these examples are for a user with an advanced level of access. Menus are displayed in alphabetical order.

### Attribute Relationships Pop-up Menu

Right-click an attribute relationship to display actions that you can take related to that object or axis.

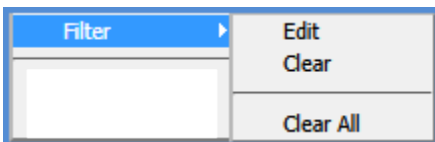


<p>1</p>	<p><b>Copy</b> - This option allows you to copy sections of a view that you have selected.</p> <p><b>Paste</b> - Allows you to paste data into update enabled cells. This option only shows in planning enabled views.</p> <p><b>Select All</b> - Use this option to select the entire grid.</p>
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<p>2</p>	<p><b>Insert</b> - The sub menu has options for Regular Measure Item, Calculated Measure Item, and Chart. The Insert Measure Item window will automatically refresh the grid when it is closed. The Charting Data Wizard will display when inserting a new chart.</p>  <p><b>Edit</b> - Edit the hierarchies on the rows, columns, or view filter.</p> 
<p>3</p>	<p><b>Hide</b> - When an attribute relationship is right-clicked and Hide is selected, the selected object is hidden from the grid. The Visible property for the attribute relationship changes to No. From view explorer, you can drag an attribute relationship back in the grid if needed, or you can change the Visible property to Yes.</p>
<p>4</p>	<p><b>Sort</b> - Sort options are Ascending, Descending, Remove, and Remove All.</p> 
<p>5</p>	<p><b>Actions</b> – Use this option to add new actions, add the active view to existing actions, or display the actions that include the active view.</p>  <p><b>Transpose</b> - Use this option to change the axis for levels and measure items in the grid. Objects displayed in columns are switched to display in rows and vice versa.</p>
<p>6</p>	<p><b>View Explorer</b> - This option allows you to open and close view explorer. If the Properties window is open when you close view explorer, the Properties window will also close.</p> <p><b>Properties</b> - Click to maintain the attribute relationship properties including sorting and whether it is visible or not.</p>

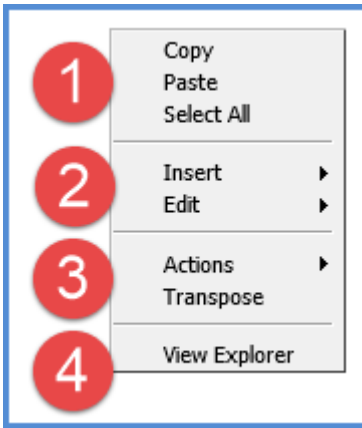
### Axis Pop-up Menu

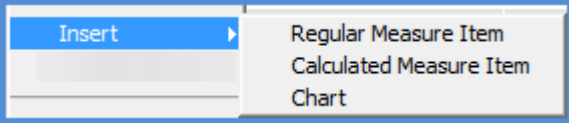
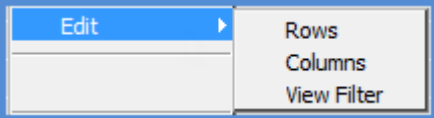
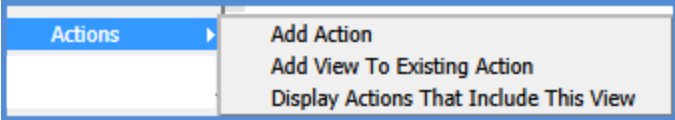
Right-click to display a Filter menu with options to Edit the axis filter, Clear the existing axis filter, or Clear All filters from the view.



### General Pop-up Menu

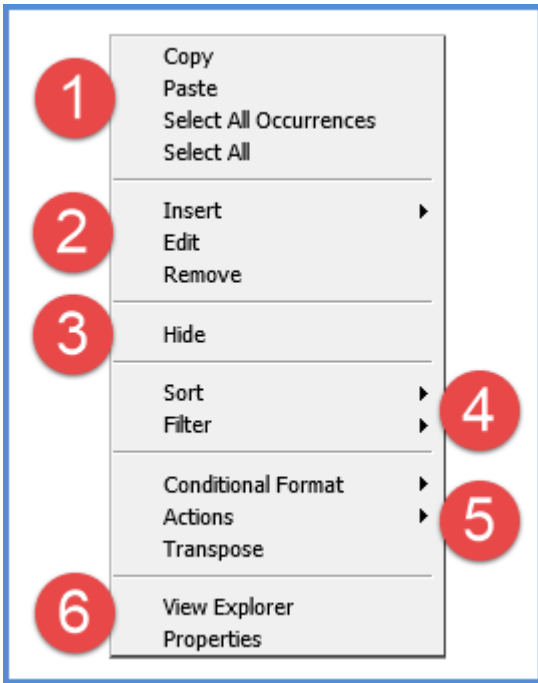
Right-click within the grid to display actions that you can take such as transposing the rows, columns, and measure items.



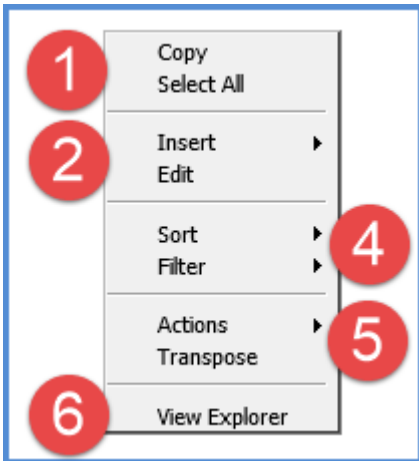
1	<p><b>Copy</b> - This option allows you to copy sections of a view that you have selected.</p> <p><b>Paste</b> - Allows you to paste data into update enabled cells. This option only shows in planning enabled views.</p> <p><b>Select All</b> - Use this option to select the entire grid.</p>
2	<p><b>Insert</b> - The sub menu has options for Regular Measure Item, Calculated Measure Item, and Chart. The Insert Measure Item window will automatically refresh the grid when it is closed. The Charting Data Wizard will display when inserting a new chart.</p>  <p><b>Edit</b> - Edit the hierarchies on the rows, columns, or view filter.</p> 
3	<p><b>Actions</b> – Use this option to add new actions, add the active view to existing actions, or display the actions that include the active view.</p>  <p><b>Transpose</b> - Use this option to change the axis for levels and measure items in the grid. Objects displayed in rows are switched to display in columns and vice versa.</p>
4	<p><b>View Explorer</b> - This option allows you to open and close view explorer. If the Properties window is open when you close view explorer, the Properties window will also close.</p>

### **Measure Item Pop-up Menus (Detail and Grand Total Menus)**

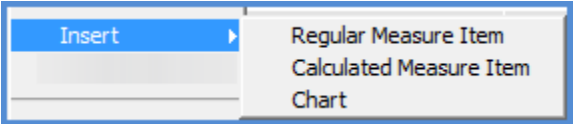
Measure items can be assigned to one axis, either rows or columns. Right-click the caption of a measure item in a detail row or column to display actions that you can take related to that object, such as inserting additional measure items or applying conditional formats.



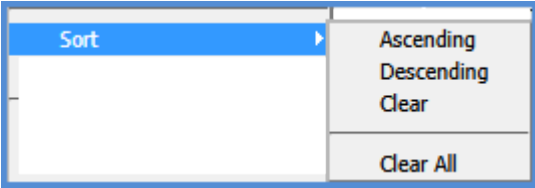
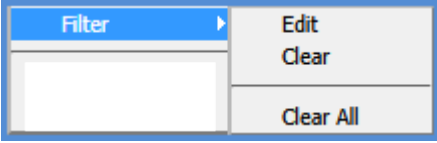
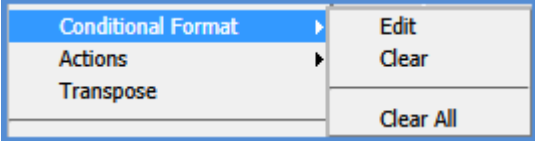
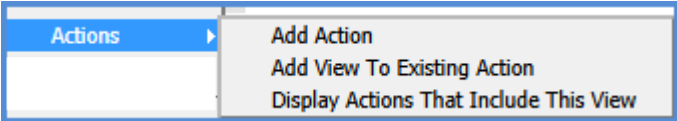
Or, right-click the caption of a measure item in a Grand Total row or column to work with values in that area of a view, such as by applying sorts and filters to them.



Descriptions follow of the menus for measure items in detail and Grand Total rows or columns.

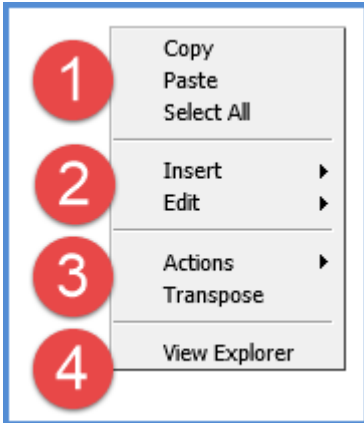
<p>1</p>	<p><b>Copy</b> - This option allows you to copy sections of a view that you have selected.</p> <p><b>Paste</b> - Allows you to paste data into update enabled cells. This option only shows in planning enabled views. This option does not display on the menu for Grand Totals.</p> <p><b>Select All Occurrences</b> - Use this option to select data for all occurrences of that measure item in the active page of the View. This option does not display on the menu for Grand Totals.</p> <p><b>Select All</b> - Use this option to select the entire grid.</p>
<p>2</p>	<p><b>Insert</b> - The sub menu has options for Regular Measure Item, Calculated Measure Item, and Chart. The Insert Measure Item window will automatically refresh the grid when it is closed. The Charting Data Wizard will display when inserting a new chart.</p> 

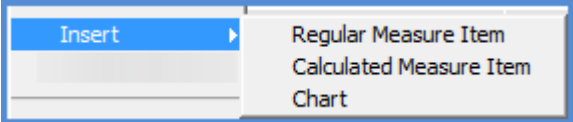
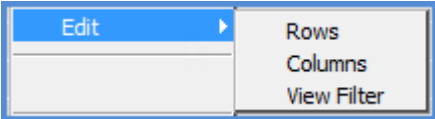
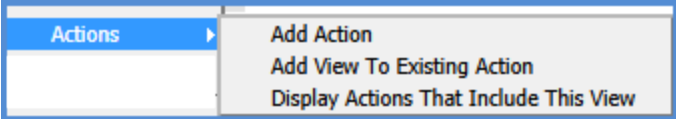


	<p><b>Edit</b> - For regular measure items, opens the Edit Measure Item window with that measure item selected for editing. You can edit that measure item or any other regular measure items. For calculated measure items, opens the Expression window so you can edit the measure item expression.</p> <hr/> <p><b>Note:</b> Another way to access the Edit Measure Item window or Expression window is to double-click the caption of the respective regular or calculated measure item.</p> <hr/> <p><b>Remove</b> - Removes the measure item from the view definition without confirmation. It will no longer display in the view explorer. This option does not display on the menu for Grand Totals.</p>
<p>3</p>	<p><b>Hide</b> - When a measure item is right-clicked and Hide is selected, the selected object is hidden from the grid. The Visible property for the measure item changes to No. From view explorer, you can drag a measure item back in the grid if needed, or you can change the Visible property to Yes. This option does not display on the menu for Grand Totals.</p>
<p>4</p>	<p><b>Sort</b> - Sort options are Ascending, Descending, Clear, and Clear All.</p>  <p><b>Filter</b> - Filter options are Edit, Clear, and Clear All.</p> 
<p>5</p>	<p><b>Conditional Format</b> – Use this option to edit or add conditional formatting on the measure item, There are also options for clearing the conditional format on the active measure item or all measure items. This option does not display on the menu for Grand Totals.</p>  <p><b>Actions</b> – Use this option to add new actions, add the active view to existing actions, or display the actions that include the active view.</p>  <p><b>Transpose</b> - Use this option to change the axis for levels and measure items in the grid. Objects displayed in columns are switched to display in rows and vice versa.</p>
<p>6</p>	<p><b>View Explorer</b> - This option allows you to open and close view explorer. If the Properties window is open when you close view explorer, the Properties window will also close.</p> <p><b>Properties</b> - Click to maintain the measure item properties including the name, caption expression, type, pop-up labels, hyperlinks, and so forth. This option does not display on the menu for Grand Totals.</p>

## View Filter Pop-up Menu

Right-click the View Filter header to display actions that you can take related to that object or section of the grid, such as filtering levels in that section.

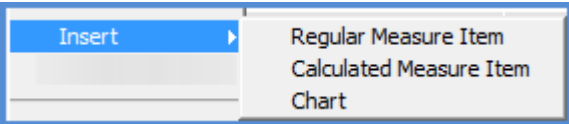
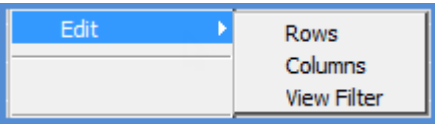
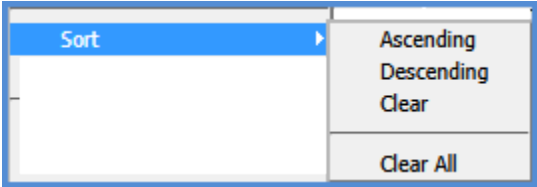


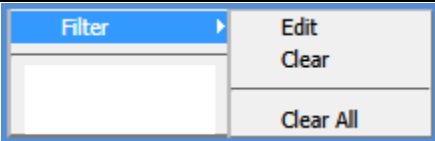
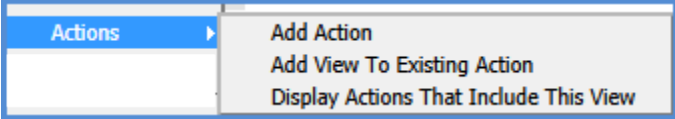
<p>1</p>	<p><b>Copy</b> - This option allows you to copy sections of a view that you have selected.</p> <p><b>Paste</b> - Allows you to paste data into update enabled cells. This option only shows in planning enabled views.</p> <p><b>Select All</b> - Use this option to select the entire grid.</p>
<p>2</p>	<p><b>Insert</b> - The sub menu has options for Regular Measure Item, Calculated Measure Item, and Chart. The Insert Measure Item window will automatically refresh the grid when it is closed. The Charting Data Wizard will display when inserting a new chart.</p>  <p><b>Edit</b> - Edit the hierarchies on the rows, columns, or view filter.</p> 
<p>3</p>	<p><b>Actions</b> – Use this option to insert add new actions, add the active view to existing actions, or display the actions that include the active view.</p>  <p><b>Transpose</b> - Use this option to change the axis for levels and measure items in the grid. Objects displayed in columns are switched to display in rows and vice versa.</p>
<p>4</p>	<p><b>View Explorer</b> - This option allows you to open and close view explorer. If the Properties window is open when you close view explorer, the Properties window will also close.</p>

## Levels Pop-up Menu

Right-click the level to display actions that you can take related to the level, such as editing the hierarchy.

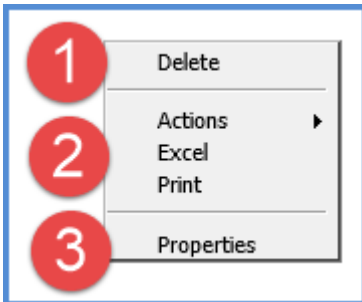


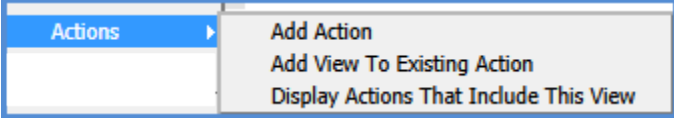
<p>1</p>	<p><b>Copy</b> - This option allows you to copy sections of a view that you have selected.</p> <p><b>Paste</b> - Allows you to paste data into update enabled cells. This option only shows in planning enabled views.</p> <p><b>Select All</b> - Use this option to select the entire grid.</p>
<p>2</p>	<p><b>Insert</b> - The sub menu has options for Regular Measure Item, Calculated Measure Item, and Chart. The Insert Measure Item window will automatically refresh the grid when it is closed. The Charting Data Wizard will display when inserting a new chart.</p>  <p><b>Edit</b> - Edit the hierarchies on the rows, columns, or view filter.</p> 
<p>3</p>	<p><b>Hide</b> - When a level is right-clicked and Hide is selected, the selected object is hidden from the grid. The Visible property for the level changes to No. From view explorer, you can drag a level back in the grid if needed, or you can change the Visible property to Yes.</p>
<p>4</p>	<p><b>Sort</b> - Sort options are Ascending, Descending, Clear, and Clear All.</p>  <p><b>Filter</b> - Filter options are Edit, Clear, and Clear All.</p>

	
<p><b>5</b></p>	<p><b>Actions</b> – Use this option to add new actions, add the active view to existing actions, or display the actions that include the active view.</p>  <p><b>Transpose</b> - Use this option to change the axis for levels and measure items in the grid. Objects displayed in columns are switched to display in rows and vice versa.</p>
<p><b>6</b></p>	<p><b>View Explorer</b> - This option allows you to open and close view explorer. If the Properties window is open when you close view explorer, the Properties window will also close.</p> <p><b>Properties</b> - Click to maintain the level properties including the filter, sort, totaling, visibility, and display text.</p>

**View Name Pop-up Menu**

Right-click the view name to display actions that you can take related to the overall grid, such as exporting to Excel.



<p><b>1</b></p>	<p><b>Delete</b> - Choose Delete to delete the view with confirmation. Anyone can delete their own personal views, but only view and security administrators may delete global views.</p>
<p><b>2</b></p>	<p><b>Actions</b> – Use this option to add new actions, add the active view to existing actions, or display the actions that include the active view.</p>  <p><b>Excel</b> - Click to initiate an export of the view to Microsoft Excel.</p> <p><b>Print</b> - Click to print the active page of the view.</p>
<p><b>3</b></p>	<p><b>Properties</b> - Click to maintain the view properties including the name, description, type and view group.</p>

## Measure Item Filter Window

MEASURE ITEM FILTER: ACTUAL SALES SALES UNITS

Operator **1**

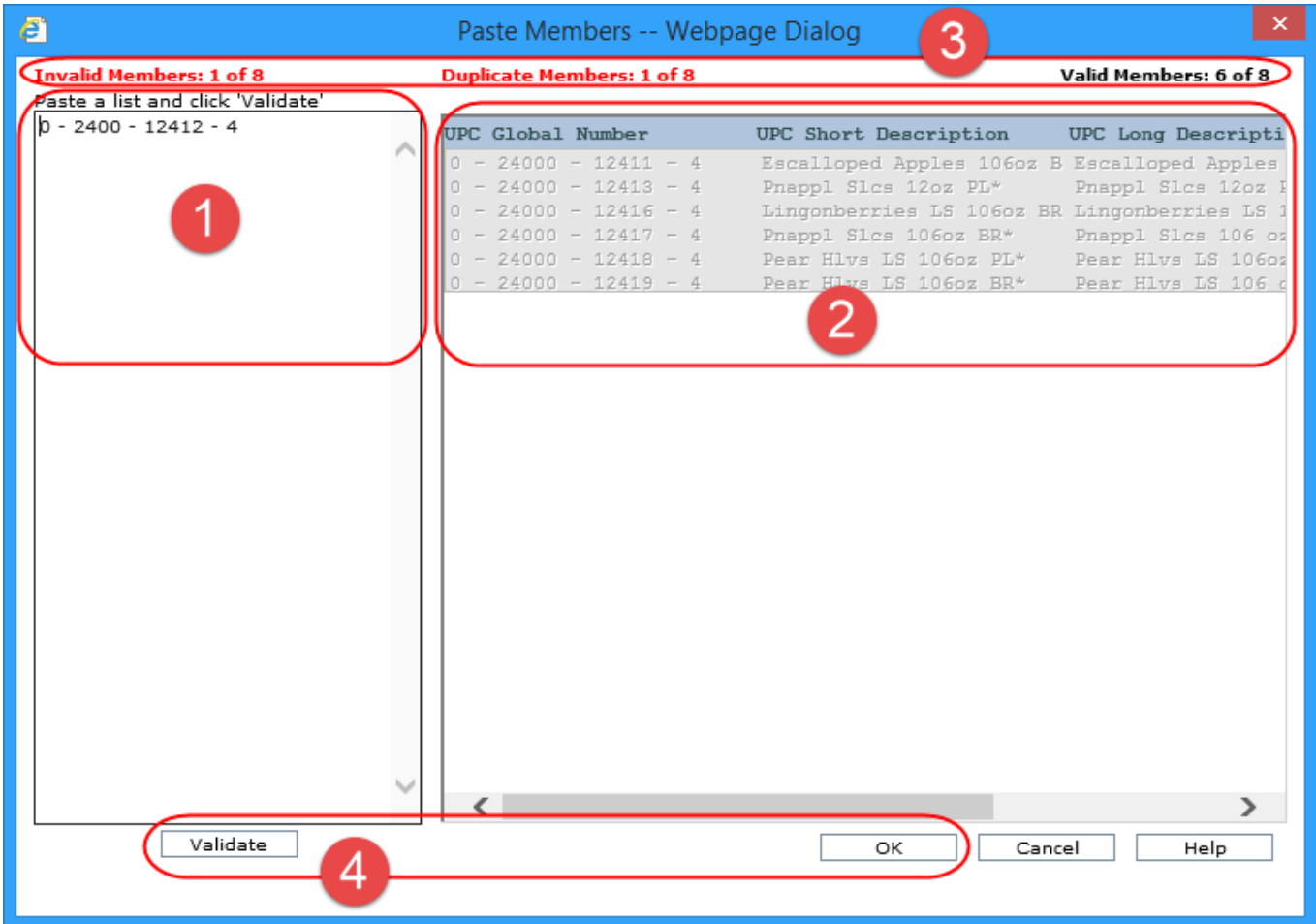
Value **2**

Cancel

=  
<>  
<  
<=  
>  
>=  
Top Count  
Top Percent  
Top Sum  
Bottom Count  
Bottom Percent  
Bottom Sum  
Recursive Top Count  
Recursive Top Percent  
Recursive Top Sum  
Recursive Bottom Count  
Recursive Bottom Percent  
Recursive Bottom Sum  
Overall Top Count  
Overall Top Percent  
Overall Top Sum  
Overall Bottom Count  
Overall Bottom Percent  
Overall Bottom Sum

<b>1</b>	<b>Operator list</b> - Choose what type of filter to apply, such as greater than or less than, top / bottom, recursive top / bottom, or overall top / bottom filters.
<b>2</b>	<b>Value list</b> - Type in the numeric value by which to filter the measure.

## Paste Members Window



<b>1</b>	<b>Paste Members</b> – Use in combination with the Validate button to copy a list of members, validate the list, and then add valid members to the member list you are creating. Members copied into this section need to be separated by a carriage return. Examples of sources from which you can copy members would be a column in an Excel spreadsheet or list of members from a Stratum.Viewer view. You can also use a comma-delimited list from an email or text file.
<b>2</b>	<b>Validated Members</b> - This section is display-only. It is populated with valid members that were entered in the left portion of the window.
<b>3</b>	<b>Member Status</b> - Counts of invalid, duplicate, valid, and total members validated while using this window display at the top of the window.
<b>4</b>	<b>Validate</b> - Click to verify the pasted members are valid for the level with which you are working. Valid members are moved to the right side of the window. Invalid members remain in the left side of the window. Duplicate members are removed. Counts are updated in the member status displayed at the top of the window.  <b>OK</b> - Click to return all valid members back to the Advanced Select Members window. In that window, you can make adjustments such as sorting or removing some of the members from the member list with which you are working.


## Properties Window for Attribute Relationships



Properties - UPC List Catalog Number	
1	Name: UPC List Catalog Number
	Caption Expression: Catalog Number <input type="button" value="..."/>
2	Sort: None <input type="button" value="v"/>
	Visible: Yes <input type="button" value="v"/>

1	<p><b>Name</b> – The name of the attribute. Used in the view explorer and filter windows.</p> <p><b>Caption Expression</b> – A read only field that shows the expression behind the caption for an attribute relationship. The resolved text generated by the expression creates the caption, which is the text that displays for the attribute relationship in the view. The Caption Expression window can be accessed for editing the expression by clicking the Browse button <input type="button" value="..."/> next to the field. Attribute relationships will be referred to by their names in all other Stratum.Viewer locations that they appear, such as in view explorer and the Select Members window.</p>
2	<p><b>Sort</b> - Use to add, edit, or remove Ascending and Descending sorts.</p> <p><b>Visible</b> – Set this property to No to hide the attribute relationship in a view. Set this property to Yes to display the attribute relationship in a view.</p>

## Properties Window for Columns

Properties - Columns	
1	Drilldown View: None <input type="button" value="v"/>
	Repeating Values: No <input type="button" value="v"/>
3	Totals Default: Yes <input type="button" value="v"/>
	All Others Default: No <input type="button" value="v"/>
4	Relationship Filter: Yes <input type="button" value="v"/>
	Empty Filter: Yes <input type="button" value="v"/>
	Axis Filter: <input type="button" value="..."/> <input type="button" value="x"/>

1	<p><b>Drilldown View</b> – Assign a drilldown view if you want to drill from the last level displayed on columns to another view, for example, to a view with related or complimentary data to the originating view. Choose from views that you normally have access to in the application.</p>
2	<p><b>Repeating Values</b> – Use to control whether or not duplicate column values display in the grid. Set the option to Yes if you want to see the following values repeated across the column detail cells in the grid: level display text, level attribute relationships, headings for All Others (if Others Summary is enabled), sub-totals, and grand totals.</p> <hr/> <p><b>Note:</b> This property also can be edited from the Display Options window  in a view.</p>
3	<p><b>Totals Default</b> – Use to control whether or not Totals display by default for new levels inserted on columns. Leave the property set to Yes if you want all new levels that are inserted on columns to have totals displayed for them. Change to No if you want totals to be disabled for all new levels that you insert on columns. You can control the totals settings for individual levels using the “Total” setting in a level’s Properties window.</p>

	<p><b>All Others Default</b> – Use to control whether or not All Others values display by default for new levels inserted on columns. Leave the property set to No if you do not want All Others values to display by default. Change to Yes if you want all new levels that are inserted on columns to have All Others values display. All Others values represent the sum of all members not in a filter. You can control the All Others settings for individual levels using the “All Others” setting in a level’s properties window.</p> <p><b>Note:</b> You also can enable or disable these properties for all levels on rows using the Display Options window  in a view.</p>
<p><b>4</b></p>	<p><b>Relationship Filter and Empty Filter</b> – When the Relationship Filter is set to Yes, only the members that have data for the measures and time ranges defined in the view will display. When the Relationship Filter is set to No, all members will be displayed. This allows you to see members with and without data for the measures and time ranges defined in the view. You can additionally use the Empty Filter property. In order for the Empty Filter property to be set to Yes, the Relationship Filter property must be set to Yes. The empty filter will remove any columns where no data exists, but that were not removed by the relationship filter. This can occur when there is a level filter on the axis opposite the measure item axis.</p>
<p><b>5</b></p>	<p><b>Axis Filter</b> – Use to work with an axis filter on columns:</p> <ul style="list-style-type: none"> <li>• Click the Browse button  to add or edit a filter on the columns axis. An Expression window displays for setting up the filter. A pop-up label for this field displays expression criteria for an existing filter.</li> <li>• Click the "X" button to remove a filter.</li> </ul>

## Properties Window for Individual Measure Items









### Regular Measure Items



Properties - Actual Sales Sales Amount Wk 1 2012 to Wk 37 2012	
1	Name: Data1
2	Caption Expression: [Measure] [From Period Short Desc] [From Year ' ...
3	Type: Regular
4	Measure: Actual Sales Sales Amount
5	Format String: As Is
6	Value: Yes
7	Image: No
8	Conditional Format: No   Sales Above Goal
	Pop-up Expression: Yes   "Indicator displays for sales over \$5 mi ...
	Hyperlink: No
	Visible: Yes
	Filter: Recursive Top Count   15
	Sort: Descend
	Total: Total

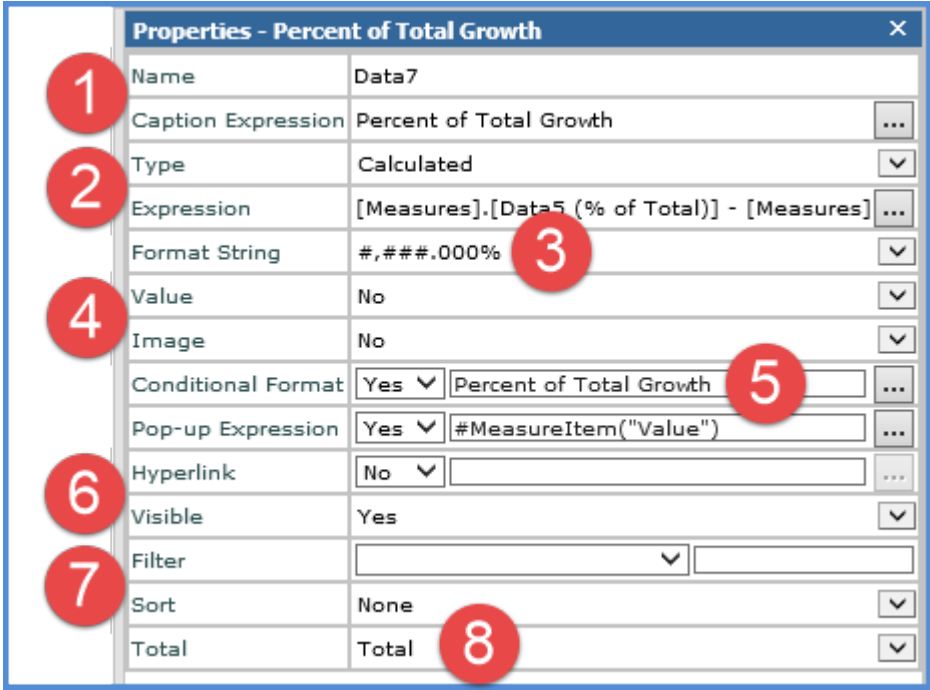
<p><b>1</b></p>	<p><b>Name</b> – The text in this field determines the unique name that Stratum.Viewer will use to identify a measure item in the view. You can edit this field as needed. Default names given to new measure items are DataN. The “N” is a sequential number assigned by Stratum.Viewer to create a unique</p>
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	<p>name. You will be prompted to make corrections to the name if you enter a duplicate name, use any spaces in the name, use too many characters (more than 50), or use invalid characters.</p> <p><b>Caption Expression</b> - A read only field that shows the expression behind the caption for a measure item. The resolved text generated by the expression creates the caption, which is the text that displays for the measure item in the view and other areas of the application such as view explorer. The Caption Expression window can be accessed for editing the expression by clicking the Browse button next to the field.</p>
<p>2</p>	<p><b>Type</b> – This property shows the type of measure item you are working with – either regular, calculated, or distinct calculated. The property will be set to “Regular” if you are inserting or editing a regular measure item.</p> <hr/> <p><b>Note:</b> See the next table for information about calculated and distinct calculated types.</p> <p><b>Measure</b> – This field is a read only field that displays the underlying measure you selected when setting up the regular measure item.</p> <ul style="list-style-type: none"> <li>• For measure items with time ranges, clicking the Browse button  next to the Measure field opens the Edit Measure Item window. Use that window to edit the measure item's underlying measure or time range. The main Time Range property for a view must be set to Yes for the Properties window to behave in this manner.</li> <li>• For measure items without time ranges, clicking the search button  next to the Measure field opens the Select Measure window for editing the underlying measure. The main Time Range property for a view must be set to No for the Properties window to behave in this manner.</li> </ul>
<p>3</p>	<p><b>Format String</b> – Use this drop-down list to apply a format such as decimal places, monetary symbols, commas, or a combination of formatting.</p>
<p>4</p>	<p><b>Value</b> – Determines if the measure item value displays in the Viewer grid. Set to Yes to display value. Set to No to hide the value, for example, in cases where you want to display only the conditional format icon for a measure item.</p> <p><b>Image</b> – This property is used when setting up calculated measure items that display images. See the next table for information about this property.</p>
<p>5</p>	<p><b>Conditional Format</b> – Controls the display of icons, and cell and text formatting for the measure item by applying the conditional format rules. The Browse button  is only enabled when the Conditional Format field is set to Yes. When enabled, you can click the button to access the Select Conditional Format window to edit the conditional format associated with the measure item or create a new one. The name of the selected conditional format displays in the text box left of the  icon.</p>
<p>6</p>	<p><b>Pop-up Expression</b> – Use this property to specify whether the selected measure item has a pop-up label that will display when you hover over the measure item value, indicator, or image. The Browse button  is only enabled when the Pop-up Expression field is set to Yes. When enabled, you can click the button to access the Pop-up Label Expression window to edit the existing expression or create a new one. The active pop-up expression displays in the text box left of the  icon.</p> <p><b>Hyperlink</b> – Choose Yes if you want a hyperlink defined for the cell of a measure item. The Browse button  is only enabled when the Hyperlink field is set to Yes. When enabled, you can click the button to access the Hyperlink Expression window to edit the expression or create a new one. The hyperlink defined displays in the text box left of the  icon.</p>

<b>7</b>	<p><b>Filter and Sort</b> – Use to add, edit, or remove filters and sorts. For filters, select the operator from the drop-down list and enter the value to filter by in the field next to the list. Pop-up labels showing filter criteria will show for the Filter field after a filter has been applied.</p> <p>If your view has levels on the same axis as measure items, these properties will be disabled until you have applied an initial filter or sort via the grid.</p>
<b>8</b>	<p><b>Total</b> – Use to control the type of total that is performed for a measure item. The default setting for all measure items is Total.</p> <ul style="list-style-type: none"> <li>• <b>None</b> – No total will be displayed.</li> <li>• <b>Total</b> – This designation takes into account any underlying calculations for a measure item's definition when generating Grand Totals, sub-totals, and All Others – such as calculations defined in a measure item expression or associated with a Stratum.Planner calculated value.</li> <li>• <b>Sum</b> – This designation means that Viewer will generate totals by adding the values displayed in measure item detail cells. That summing will be used to generate the Grand Totals, sub-totals, and All Others. This type of total is intended for special cases where you don't want any of the underlying calculations that Viewer performs to be used when generating total values. You might choose to use a Sum total when a measure item calculation includes an IIF statement, such as a calculation with IF, Then, Else conditions.</li> </ul>

**Calculated and Distinct Calculated Measure Items**

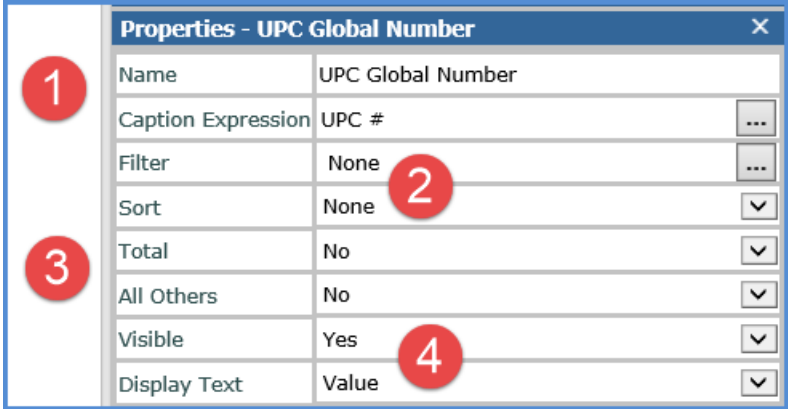


<b>1</b>	<p><b>Name</b> – The text in this field determines the unique name that Stratum.Viewer will use to identify a measure item in the view. You can edit this field as needed. Default names given to new measure items are DataN. The "N" is a sequential number assigned by Stratum.Viewer to create a unique name. You will be prompted to make corrections to the name if you enter a duplicate name, use any spaces in the name, use too many characters (more than 50), or use invalid characters.</p> <p><b>Caption Expression</b> – A read only field that shows the expression behind the caption for a measure item. The resolved text generated by the expression creates the caption, which is the text that displays for the measure item in the view and other areas of the application such as view explorer.</p>
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	The Caption Expression window can be accessed for editing the expression by clicking the Browse button next to the field.
2	<p><b>Type</b> – This property shows the type of measure item you are working with – either regular, calculated, or distinct calculated. The property will be set to “Calculated” or “Distinct Calculated” if you are inserting or editing that type of measure item.</p> <hr/> <p><b>Note:</b> See the previous table for information about regular types.</p> <hr/> <p><b>Expression</b> – When "Calculated" or "Distinct Calculated" is the measure item type, an Expression field shows in this window. It's a read only field that shows the expression for calculating the measure item. The Expression window can be accessed for editing the expression by clicking the Browse button  next to the field.</p> <p>Note that when you are using a calculated measure item to display images in a view that the expression will determine the location/name of the image file for Stratum.Viewer to display.</p> <ul style="list-style-type: none"> <li>• The image file must reside in the Stratum.Viewer application folders. It is recommended that all custom images reside in a subfolder of the Images folder of the Stratum.Viewer application.</li> <li>• Supported file types for images are *.jpg, *.jpeg, *.png, *.bmp, *.gif, *.tif, and *.tiff.</li> <li>• The image will display according to its original, default size.</li> </ul>
3	<b>Format String</b> – Use this drop-down list to apply a format such as decimal places, monetary symbols, commas, or a combination of formatting.
4	<p><b>Value</b> – Determines if the measure item value displays in the Viewer grid. Set to Yes to display value. Set to No to hide the value, for example, in cases where you want to display only the conditional format icon for a measure item.</p> <p><b>Image</b> – This property is used when setting up calculated measure items that display images. You use the Expression window to define the location of the image and then set this property to Yes in order for the defined image to display in the grid. See item 2 above.</p>
5	<b>Conditional Format</b> – Controls the display of icons, and cell and text formatting for the measure item by applying the conditional format rules. The Browse button  is only enabled when the Conditional Format field is set to Yes. When enabled, you can click the button to access the Select Conditional Format window to edit the conditional format associated with the measure item or create a new one. The name of the selected conditional format displays in the text box left of the  icon.
6	<p><b>Pop-up Expression</b> – Use this property to specify whether the selected measure item has a pop-up label that will display when you hover over the measure item value, indicator, or image. The Browse button  is only enabled when the Pop-up Expression field is set to Yes. When enabled, you can click the button to access the Pop-up Label Expression window to edit the existing expression or create a new one. The active pop-up expression displays in the text box left of the  icon.</p> <p><b>Hyperlink</b> – Choose Yes if you want a hyperlink defined for the cell of a measure item. The Browse button  is only enabled when the Hyperlink field is set to Yes. When enabled, you can click the button to access the Hyperlink Expression window to edit the expression or create a new one. The hyperlink defined displays in the text box left of the  icon.</p>

<b>7</b>	<p><b>Filter and Sort</b> – Use to add, edit, or remove filters and sorts. For filters, select the operator from the drop-down list and enter the value to filter by in the field next to the list. Pop-up labels showing filter criteria will show for the Filter field after a filter has been applied.</p> <p>If your view has levels on the same axis as measure items, these properties will be disabled until you have applied an initial filter or sort via the grid.</p>
<b>8</b>	<p><b>Total</b> – Use to control the type of total that is performed for a measure item. The default setting for all measure items is Total.</p> <ul style="list-style-type: none"> <li>• <b>None</b> – No total will be displayed.</li> <li>• <b>Total</b> – This designation takes into account any underlying calculations for a measure item’s definition when generating Grand Totals, sub-totals, and All Others – such as calculations defined in a measure item expression or associated with a Stratum.Planner calculated value.</li> <li>• <b>Sum</b> – This designation means that Viewer will generate totals by adding the values displayed in measure item detail cells. That summing will be used to generate the Grand Totals, sub-totals, and All Others. This type of total is intended for special cases where you don’t want any of the underlying calculations that Viewer performs to be used when generating total values. You might choose to use a Sum total when a measure item calculation includes an IIF statement, such as a calculation with IF, Then, Else conditions.</li> </ul>

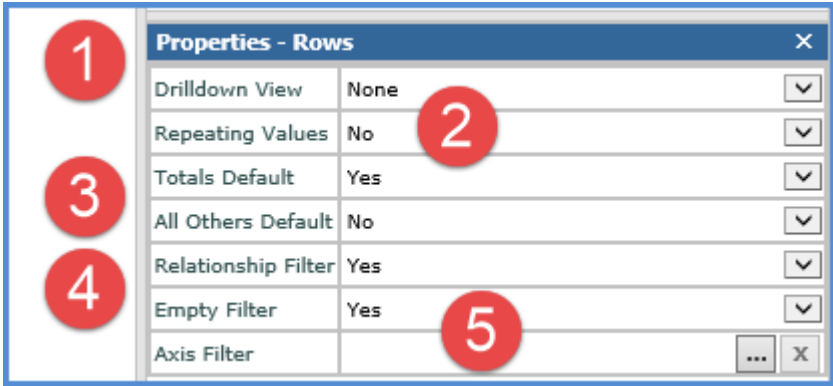
**Properties Window for Levels**






<b>1</b>	<p><b>Name</b> – Name of the level. Used in the view explorer and filter windows.</p> <p><b>Caption Expression</b> – A read only field that shows the expression behind the caption for a level. The resolved text generated by the expression creates the caption, which is the text that displays for the level in the view. The Caption Expression window can be accessed for editing the expression by clicking the Browse button <input type="button" value="..."/> next to the field. Levels will be referred to by their names in all other Stratum.Viewer locations that they appear, such as in view explorer and the Select Members window.</p>
<b>2</b>	<p><b>Filter and Sort</b> - Use to add, edit, or remove filters and sorts.</p> <ul style="list-style-type: none"> <li>• <b>Filter</b> - click the Browse button <input type="button" value="..."/> to access the <a href="#">Select Filter Method window</a> and either add or change a filter. If a filter already exists, the filter type displays in this field and a pop-up label shows filter criteria.</li> <li>• <b>Sort</b> - use the list provided to add Ascending or Descending sorts or to change or remove a sort.</li> </ul>

<b>3</b>	<p><b>Total</b> – Use to control whether or not Total values display for the level. When the property is Yes, totals will display for the level, When the property is No, totals will not display.</p> <p><b>All Others</b> – Use to control whether or not All Others values display for the level. All Others values represent the sum of all members not in a filter. When the property is Yes, All Others values will display for the level, When the property is No, All Others will not display.</p>
<b>4</b>	<p><b>Visible</b> – Set this property to No to hide the level in a view. Set this property to Yes to display the level in a view.</p> <p><b>Display Text</b> – This property controls what displays in the first row or column for the level. The default is the level value. You can change it to any of the attribute relationships that have been made available in the view for the level.</p>

**Properties Window for Rows**

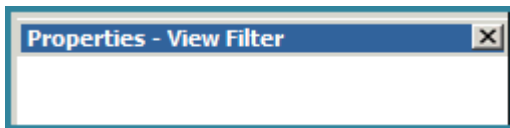


<b>1</b>	<p><b>Drilldown View</b> – Assign a drilldown view if you want to drill from the last level displayed on rows to another view, for example, to a view with related or complimentary data to the originating view. Choose from views that you normally have access to in the application.</p>
<b>2</b>	<p><b>Repeating Values</b> – Use to control whether or not duplicate row values display in the grid. Set the option to Yes if you want to see the following values repeated across the row detail cells in the grid: level display text, level attribute relationships, headings for All Others (if Others Summary is enabled), sub-totals, and grand totals.</p> <hr/> <p><b>Note:</b> This property also can be edited from the Display Options window  in a view.</p>
<b>3</b>	<p><b>Totals Default</b> – Use to control whether or not Totals display by default for new levels inserted on rows. Leave the property set to Yes if you want all new levels that are inserted on rows to have totals displayed for them. Change to No if you want totals to be disabled for all new levels that you insert on rows. You can control the totals settings for individual levels using the “Total” setting in a level’s Properties window.</p> <p><b>All Others Default</b> – Use to control whether or not All Others values display by default for new levels inserted on rows. Leave the property set to No if you do not want All Others values to display by default. Change to Yes if you want all new levels that are inserted on rows to have All Others values display. All Others values represent the sum of all members not in a filter. You can control the All Others settings for individual levels using the “All Others” setting in a level’s properties window.</p> <hr/> <p><b>Note:</b> You also can enable or disable these properties for all levels on rows using the Display Options window  in a view.</p>

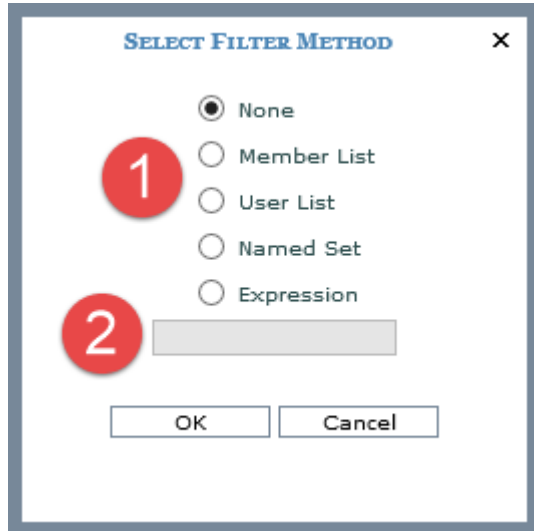
<p>4</p>	<p><b>Relationship Filter and Empty Filter</b> – When the Relationship Filter is set to Yes, only the members that have data for the measures and time ranges defined in the view will display. When the Relationship Filter is set to No, all members will be displayed. This allows you to see members with and without data for the measures and time ranges defined in the view. You can additionally use the Empty Filter property. In order for the Empty Filter property to be set to Yes, the Relationship Filter property must be set to Yes. The empty filter will remove any rows where no data exists, but that were not removed by the relationship filter. This can occur when there is a level filter on the axis opposite the measure item axis.</p>
<p>5</p>	<p><b>Axis Filter</b> – Use to work with an axis filter on rows:</p> <ul style="list-style-type: none"> <li>• Click the Browse button  to add or edit a filter on the rows axis. An Expression window displays for setting up the filter. A pop-up label for this field displays expression criteria for an existing filter.</li> <li>• Click the "X" button to remove a filter.</li> </ul>

### Properties Window for View Filter

There are no properties for this folder in view explorer. If there are levels in the View Filter, they will each have their own properties window.





### Select Filter Method Window



Only the Member List and Named Set options display when the window is accessed from the Expression window:



<p>1</p>	<p><b>Filter Methods</b> - Choose None then click OK if you are removing a filter. To apply or change a filter, select an option and click OK or use the quick filter option noted in item 2.</p> <ul style="list-style-type: none"> <li>• <b>Member List</b> - clicking OK after selecting this option opens the <a href="#">Select</a> or <a href="#">Advanced Select Members window</a>. Search for and select members for the filter.</li> <li>• <b>User List</b> - clicking OK after selecting this option opens the <a href="#">Select User List Filter window</a>. Use the search or filter  tools as aids in finding a list. Optionally click Show Details  after selecting a list to see more information about it before applying it as a filter. Click OK to apply the selected list as a filter.</li> <li>• <b>Named Set</b> - clicking OK after selecting this option opens the <a href="#">Select Named Set Filter window</a>. Select a named set for the filter.</li> <li>• <b>Expression</b> - clicking OK after selecting this option opens the Expression window. Set up an expression for the filter.</li> </ul>
<p>2</p>	<p><b>Quick Filter Field</b> – Perform a quick filter by selecting Member List, using this field to specify the level members, then clicking OK. Separate the values in the field by semicolons and do not use any spaces between the values and semicolons.</p> <p>When using this method and working in a view, you need to refer to members based on the level's display text. For example, enter member values if the level display text is set to Value or enter member attribute relationships if the level display text is set to one of its attribute relationships. Here is a quick filter specified for three Ship-To Markets. The values entered in the field were Chicago;Dallas;Phoenix because the Ship-To Market display text is set to SMkt City:</p>

**SELECT FILTER METHOD** X

None

Member List

User List

Named Set

Expression


Chicago;Dallas;Phoe

OK Cancel

You will see the following message if you do not refer to members based on their display text setting, if you enter members not applicable to the level, or if you enter members that your role permissions do not permit you to see.

**STRATUM.VIEWER** X

Invalid search. Please revise your search criteria.



OK

You can enter wildcard criteria in the Quick Filter field. In this example, the Member List option is selected and Product Category has been quick filtered by a wildcard search of %Fruit%. Categories with "Fruit" in their display text were returned by the filter.



View Name: *Wildcard Filter*

View Filter

Product Category	Sales Amount	
	Wk 1 2014 to Wk 38 2014	Wk 1 2013 to Wk 38 2013
Canned Fruit	\$1,979,809,747	\$3,431,256,971
Fresh Fruit	\$294,627,014	\$501,706,538
Frozen Fruit Products		
All Others		
Grand Tot		

**SELECT FILTER METHOD**

None

Member List

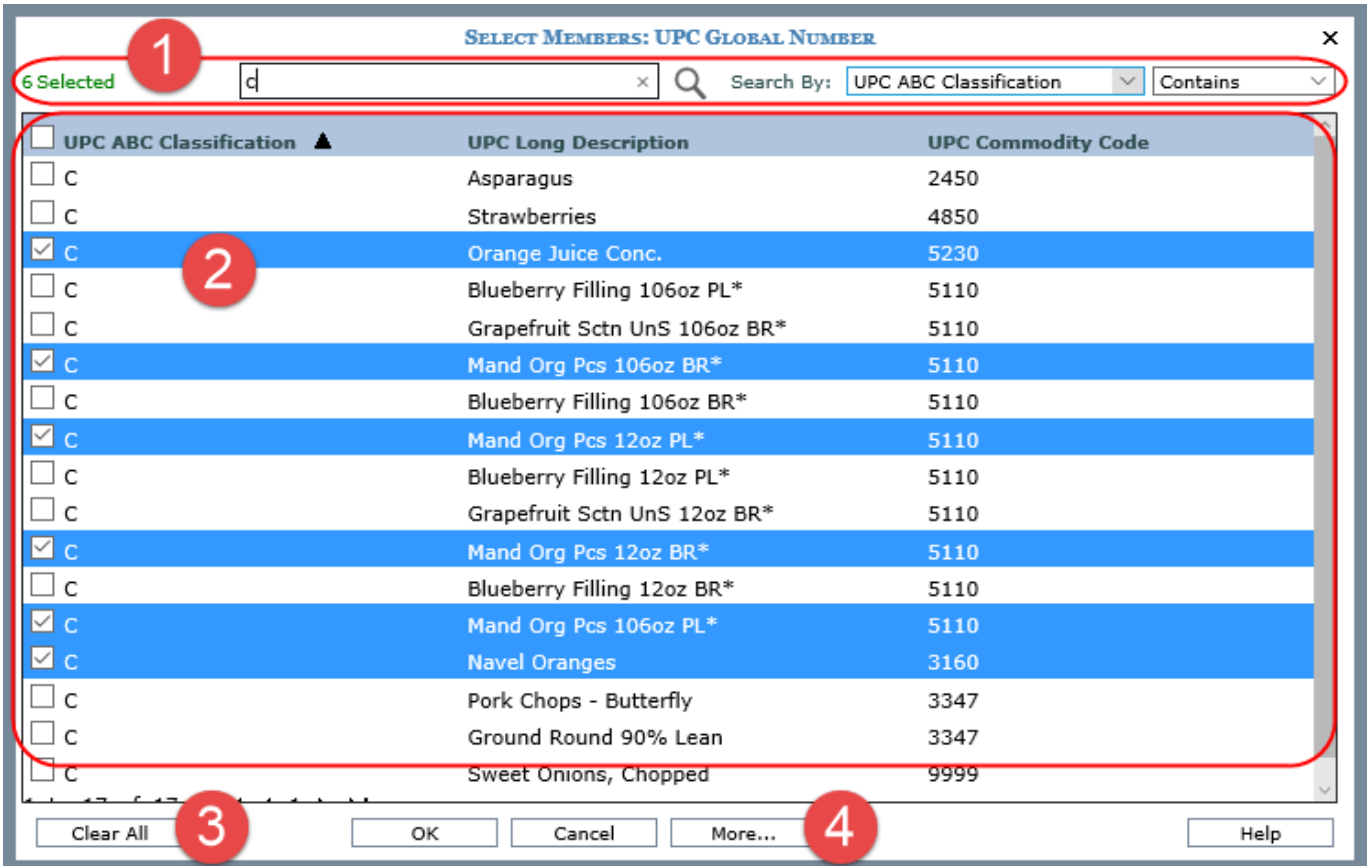
User List

Named Set

Expression

OK Cancel

## Select Members Window




1

The 'Selected' count in the upper left corner shows how many members are included in the filter. The count adjusts as you change selections in the window.

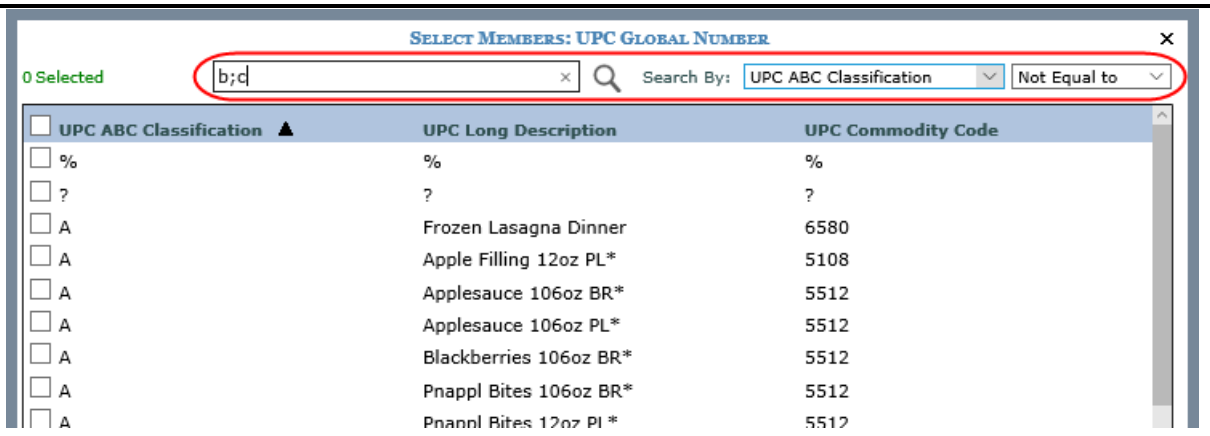
This window is initially populated with all authorized members for the active level. Make selections from the entire list, or execute a search to narrow down the list. Use the search properties to specify the criteria and the parameters by which to search for members to be used in a member list filter or user list.

**Note:** The window is also used when selecting members from the expression window for calculated measure items and when administrators set up roles.

Click the search icon  after you specify your search properties:

- Enter a value in the search field. Multiple values can be entered by separating them with a semicolon. If the field is left blank, the available list displays all members for the active level.
- Optionally use the Search By drop-down lists. The first list is to select the attribute relationship to perform the search on. The other list lets you choose whether you want your search to contain, not contain, start with, be equal to, not equal to, greater than, or less than the value(s) specified in the search.

In the following example, we searched for UPC ABC Classification not equal to "b or c".



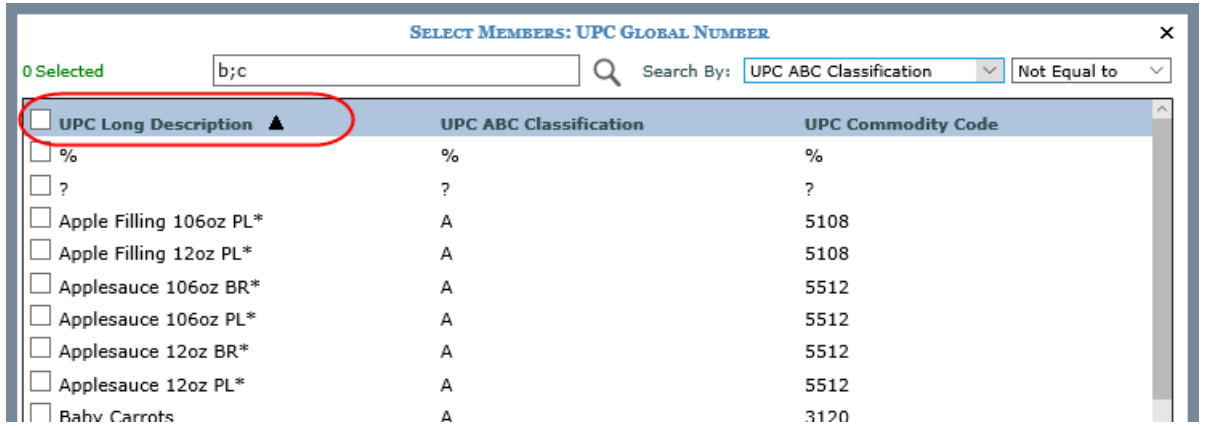
2

**Available Selection list** – Use this list to select the members to include in a member list filter, expression, etc. Click the checkboxes next to members or click anywhere in member rows to select or deselect members. Click OK when you are done making various selections to apply your filter.

Other options and tips:

- If your search returns only one member, the member will display as selected. At that point, you can click the OK button to close the window and add that member to a filter.
- Selecting members then clicking OK will add the selected members to a filter and close the window.
- Click the checkbox in the heading area to select or deselect all members on all pages in the list at once.
- Use Shift+Click as a shortcut to selecting a range of consecutive members (click the first item, then press Shift key while clicking the last item).

Columns in this area are sort and drag/drop enabled. In the following example, we clicked the UPC Long Description column and dragged it to the first position. We also clicked the Sort icon to perform the sort on that column in ascending order.



Use the paging arrows and links at the bottom of the list to move between pages of members. Selections made on various pages are retained as you move between pages in the list.

**Note:** For all windows that display lists (views, user lists, etc.), there is a single administrative setting on the Application window that controls the page size.

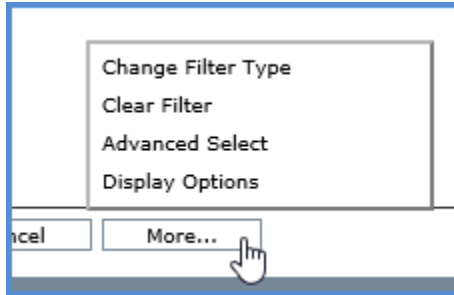
3

**Clear All** – Click this button to clear all member selections from a filter. The window remains open so you can make new selections.

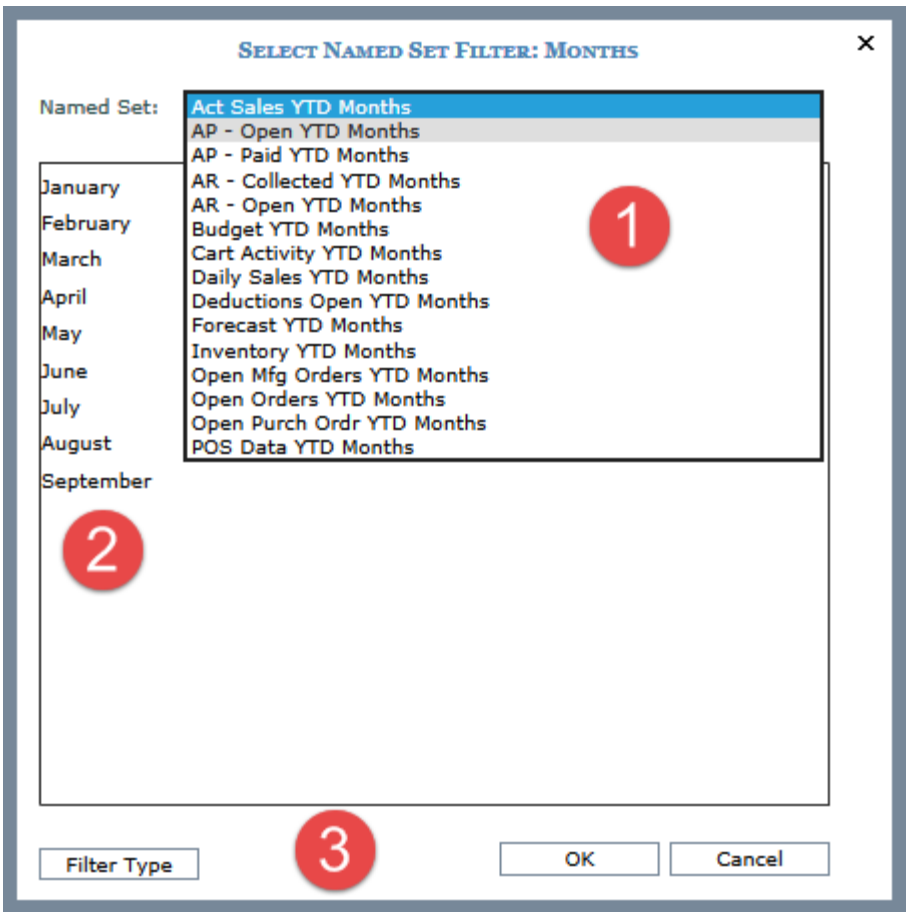
**More...** -- Click the More button for additional features:

4

- **Change Filter Type** – Click to access the Select Filter Method window if you need to apply a different type of filter to the level (User List, Named Set, or Expression).
- **Clear Filter** – Click as a shortcut to clearing the filter from the level.
- **Advanced Select** – Click to access the Advanced Select Members window if you prefer to use that advanced version of the window to search for, select, or clear. The advanced window is helpful when working with levels for which a large amount of members exist.
- **Display Options** – Use to change the display columns in this window. You can display up to 10 display columns for a level in the Select Members window.



### Select Named Set Filter Window



1

**Named Set** – Select a named set from this list to filter a level from a single-level time hierarchy by its YTD periods. Choose a type applicable to the measure items in your view. For example, an Actual Sales named set if there are Actual Sales measure items in the view.

	<b>Note:</b> The list will be disabled and a "No named sets available" message will display in the window for levels that don't have named sets.
2	<b>Named Set Members</b> – The time members that make up the named set will display in this section after you select a named set from the above list.
3	<b>OK</b> – Click OK to apply the named set selection made in this window and to close the window. <b>Cancel</b> – Click Cancel to close the window without applying your selection. <b>Filter Type</b> - When you access this window from a view to create a level filter, it will include this button. Click to access the Select Filter Method window if you need to apply a different type of filter to the level (Member List, User List, Expression)

### Select User List Filter Window

#### Main Window Sections

1 Selected User List: Customer Ship To contains

4 Customer

Name ▲	Type	Owner	Last Used
Customer Ship To one member	Global	Ramdas Venketeswaran	09/27/2010 08:49:17
Customer ShipTo contains	Global	Karen Shype	09/28/2010 08:41:35
Customer ShipTo does not contain	Global	Mary Leonard	10/22/2010 14:54:09

1 to 3 of 3    << 1 >>

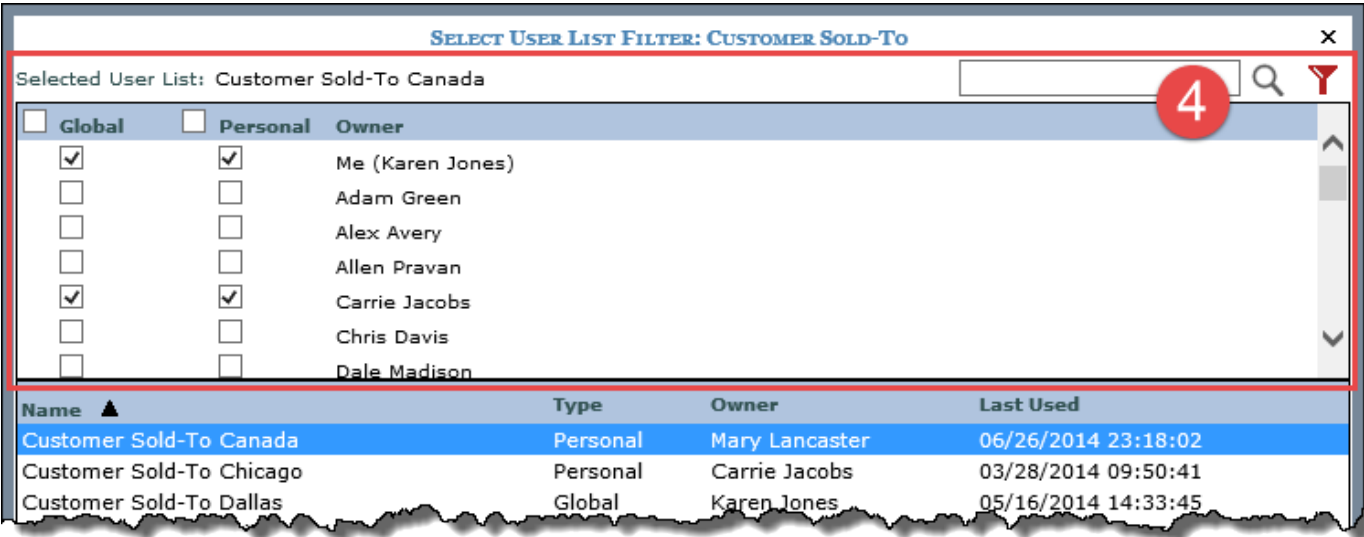
3 Filter Type    OK    Cancel    4 ^

1	<b>Selected User List</b> – The name of the actively selected list displays here.
2	<b>Available User Lists</b> – Click a list then OK to apply the list as a filter. <ul style="list-style-type: none"> <li>This is a list of all user lists that meet search and filter criteria. You can use search to find a user list with a particular name or use the filter tool to look up lists of only certain users (See</li> </ul>


	<p><a href="#">Search and Filter Features</a>). You can use the <a href="#">Show Details</a> section to look up list properties and members.</p> <ul style="list-style-type: none"> <li>To sort the displayed lists, click the Name, Type, Owner, or Last Used column heading. Click a sort icon to change between ascending ▲ and descending ▼ order. To rearrange columns in the section, click a column heading, drag it before or after another column heading, and drop it at the new location.</li> <li>At the bottom of this section (you may need to scroll down), this is a count of how many lists are displayed in the window. There are paging arrows to move between pages of lists. Arrows are active only when more lists exist than can be displayed in a single page of this section.</li> </ul> <p>1 to 27 of 27    ⏪ ⏩ 1 ⏪ ⏩</p>
<p><b>3</b></p>	<p><b>OK</b> – Click OK to apply the user list selection made in this window and to close the window.</p> <p><b>Cancel</b> – Click Cancel to close the window without applying your selection.</p> <p><b>Filter Type</b> - When you access this window from a view to create a level filter, it will include this button. Click to access the Select Filter Method window if you need to apply a different type of filter to the level (Member List, Named Set, and Expression).</p>
<p><b>4</b></p>	<p>See the next two sections for information about the search, filter, and detail lookup tools in this window.</p>


**Search and Filter Features**

Optionally use the search and/or filter features (section marked ‘4’ in following image) to look for particular user lists.





- Search** – Enter all or part of the name(s) of the list(s) you are searching for and then click the Search button to execute the search.

- **Filter** – Click the provided button  to use the filter feature. It acts as a toggle to show or hide the filter feature. Use the Global and Personal checkboxes to the left of a user's name to indicate whose lists you want to see (users with selected checkboxes will be included in filter results). The checkboxes next to the Global and Personal headings are toggles that select or deselect all Global or Personal lists of all users at one time (for example, if the Personal heading checkbox is selected, all Personal lists of all users will display in the window). At the bottom of the filter section (you may need to scroll down), there is a count of users. There are paging arrows to move between pages of users. Arrows are active only when more users exist than can be displayed in a single page of this section.

**Note:** The filter toggle will be red  if a filter has been applied. If you are using the filter section and then access the details section of the window, the filter section will close automatically.

### Show Details Feature

Optionally use this section to view details about the list that is actively selected in the window. Select a list and then click the Show Details  button. Click the Hide Details  button to hide the section. You can see the members in the list, the list description, count of members in the list, and the list mode (Static or Dynamic).



- Information that displays for list members depends on whether you accessed the window from a view or the Role Maintenance window. If accessed from a view, the section displays attribute relationships available for the level in the view. If accessed from the Role Maintenance window, the section displays attribute relationships as defined by administrative settings in the Select Members Options window.

**Note:** Only members your role permits you to access will display. The section will be blank if your role doesn't permit you to access any of the list members.

- To sort detail information, click the heading for any column of information displayed for the members. Click a sort icon to change between ascending ▲ and descending ▼ order. To rearrange columns in the section, click a column heading, drag it before or after another column heading, and drop it at the new location.
- At the bottom of the details section (you may need to scroll down), this is a count of how many members are in the list. There are paging arrows to move between pages of members. Arrows are active only when more members exist than can be displayed in a single page of this section.

**Note:** If you are using the details section and then access the filter section of the window, the details section will close automatically.

## Advanced Concepts

### Axis Filter Behavior When Levels are on Opposite Axis

Axis filters tend to be used in views where no levels exist on the axis opposite from the axis filter. That tendency is due to the basic nature of axis filters -- they take into account overall measure item totals for objects (level members) that are on the same axis as the axis filter. Also, the axis filter disregards any filtering impact that levels on the opposite axis have on the measure items and objects. The example that follows shows what to expect from an axis filter in a view with levels on the axis opposite the axis filter.

The following view has levels on rows and columns. Additionally there is a filter on the level in columns that returns one member of the Sales Director level.

View Name: <i>Axis Filters Example 1</i>						
View Filter						
<b>T Sales Dir &gt;&gt;</b>	Steve Mentas					
<u>Ship-To Market City</u>	Sales Amount after Returns Q1 to Q3 14	Sales Units after Returns Q1 to Q3 14	ASP Q1 to Q3 14	Sales Amount after Returns Q1 to Q3 13	Sales Units after Returns Q1 to Q3 13	ASP Q1 to Q3 13
<a href="#">Buffalo</a>	\$114,641,854	2,234,182	\$51	\$196,876,407	3,143,917	\$62
<a href="#">Calgary</a>	\$57,381,046	1,315,652	\$44	\$98,721,363	1,868,353	\$53
<a href="#">Chicago</a>	\$76,373,335	1,524,738	\$50	\$130,499,511	2,101,447	\$62
<a href="#">Dallas</a>	\$164,838,778	3,258,055	\$51	\$284,071,921	4,601,809	\$61
<a href="#">Phoenix</a>	\$54,475,771	1,070,463	\$51	\$93,574,570	1,513,328	\$62
<a href="#">Pittsburgh</a>	\$31,274,349	629,490	\$50	\$51,927,462	847,681	\$61
<a href="#">Quebec</a>	\$172,659,668	3,290,846	\$53	\$301,599,661	4,750,837	\$63
<a href="#">Raleigh-Durham</a>	\$114,740,214	2,182,747	\$53	\$195,692,040	3,074,005	\$63
<a href="#">Seattle</a>	\$47,550,283	1,014,939	\$47	\$81,269,831	1,437,470	\$56
<a href="#">St Louis</a>	\$39,336,991	800,286	\$49	\$67,101,515	1,104,388	\$60
<a href="#">St. John</a>	\$79,861,356	1,629,895	\$49	\$133,880,862	2,249,995	\$59
<a href="#">Winnipeg</a>	\$133,698,869	2,611,061	\$51	\$232,572,343	3,734,308	\$62
All Others						
<b>Grand Total</b>	<b>\$1,086,832,514</b>	<b>21,562,356</b>	<b>\$51</b>	<b>\$1,867,787,486</b>	<b>30,427,538</b>	<b>\$61</b>

An axis filter is going to be applied to the row axis. The filter is meant to return members from the currently drilled to level, Ship-To Market City, that meet the following conditions:

- Sales Units after Returns Q1 to Q3 14 that are greater than 1,500,000
- ASP Q1 to Q3 14 that are greater than or equal to \$50



Here is the view after the axis filter has been applied. The Ship-To Market Cities that meet the axis filter conditions are Phoenix, Pittsburgh, Seattle, and Winnipeg. Keep in mind that the axis filter disregards the filter effect that the Sales Director member has on the measure items and rows. The axis filter considers the overall measure item totals for members of the Ship-To Market City level. If you were to hide the Sales Director level, you would see why these four cities were returned -- their overall measure item totals meet both of the measure item conditions that were specified in the axis filter (see the second image that follows).

**View Name: Axis Filters Example 1**

**View Filter**  
 [Measures].[Data17 (Sales Units after Returns Q1 to Q3 14)] > 1500000 AND [Measures].[Data8 (ASP Q1 to Q3 14)] > 50

**Sales Dir >>** Steve Mentas

Ship-To Market City	Sales Amount after Returns Q1 to Q3 14	Sales Units after Returns Q1 to Q3 14	ASP Q1 to Q3 14	Sales Amount after Returns Q1 to Q3 13	Sales Units after Returns Q1 to Q3 13	ASP Q1 to Q3 13
Phoenix	\$54,475,771	1,070,463	\$51	\$93,574,570	1,513,328	\$62
Pittsburgh	\$31,274,349	629,490	\$50	\$51,927,462	847,681	\$61
Seattle	\$47,550,283	1,014,939	\$47	\$81,269,831	1,437,470	\$56
Winnipeg	\$133,698,869	2,611,061	\$51	\$232,572,343	3,734,308	\$62
All Others	\$819,833,241	16,236,402	\$51	\$1,408,443,280	22,894,751	\$61
<b>Grand Total</b>	<b>\$1,086,832,514</b>	<b>21,562,356</b>	<b>\$51</b>	<b>\$1,867,787,486</b>	<b>30,427,538</b>	<b>\$61</b>

Here is the view with Sales Director hidden. You can see that Phoenix, Pittsburgh, Seattle, and Winnipeg each have overall more than 1,500,000 sales units after returns for Q1 to Q3 of 2014 and each have overall average selling prices greater than or equal to \$50 for Q1 to Q3 of 2014.

**View Name: Axis Filters Example 1**

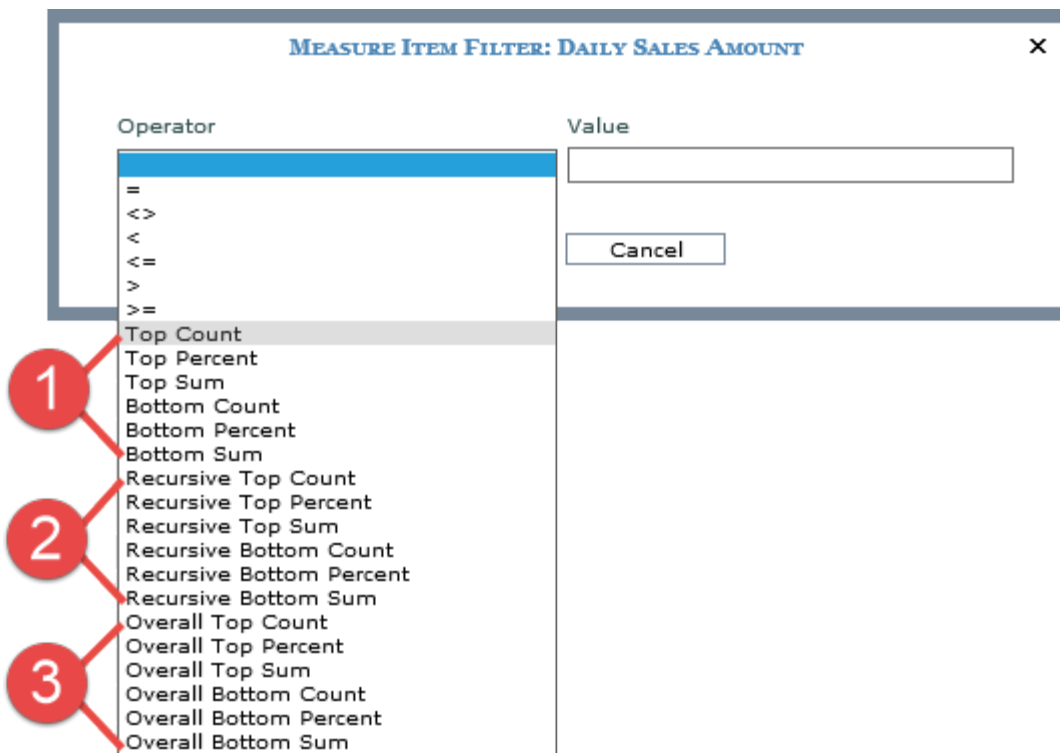
**View Filter**

Ship-To Market City	Sales Amount after Returns Q1 to Q3 14	Sales Units after Returns Q1 to Q3 14	ASP Q1 to Q3 14	Sales Amount after Returns Q1 to Q3 13	Sales Units after Returns Q1 to Q3 13	ASP Q1 to Q3 13
Phoenix	\$213,980,453	4,236,117	\$51	\$368,792,840	5,962,322	\$62
Pittsburgh	\$80,319,387	1,566,455	\$51	\$140,392,735	2,226,122	\$63
Seattle	\$213,376,352	4,220,801	\$51	\$360,956,298	5,911,416	\$61
Winnipeg	\$270,579,255	5,251,312	\$52	\$465,832,841	7,412,240	\$63
All Others	\$2,696,027,091	60,247,090	\$45	\$4,629,177,345	85,234,653	\$54
<b>Grand Total</b>	<b>\$3,474,282,539</b>	<b>75,521,775</b>	<b>\$46</b>	<b>\$5,965,152,058</b>	<b>106,746,754</b>	<b>\$56</b>

## Comparison of Top / Bottom, Recursive, and Overall Filters

Measure item filters in Stratum.Viewer include sets of predefined Stratum filters – Top / Bottom, Recursive Top / Bottom, and Overall Top / Bottom. They can be applied as a Count, Sum, or Percent filter. They are meant to be used in views with multiple levels where you have drilled down through levels by header (which is done by clicking on level names). [Examples in the next section](#) illustrate how the different types of filters behave in views.

1. **Top and Bottom** – A filter that is applied only to the most detailed subtotal level displayed in a view. You will see the top or bottom performers at that subtotal level in relation to **every** member that's on display in **every** prior level.
2. **Recursive Top / Bottom** – A filter that is applied to all subtotal levels displayed in a view and that takes into account the top or bottom performing members from all prior levels.
3. **Overall Top / Bottom** – A filter that is applied at the most detailed level displayed in a view to give you the overall top performers based on all the levels displayed.



Predefined Stratum filters are intended to be used in views where multiple levels exist on the axis opposite of measure items. In the following examples, measure items are on columns so the filters will impact levels on rows.

We will drill down on levels by header in the following examples to illustrate the difference between various predefined Stratum filters. Drilling down by header is done by clicking the names of levels in these multi-level views.

### Example 1 – “Count” Filters

Here is a view with no filtering applied to its measure items and no other levels drilled to yet.

<a href="#">Ship-To Market</a>	<b>SMkt Long Description</b>	Daily Sales Amounts Wk 1 to Wk 30 2014	Daily Sales Units Wk 1 to Wk 30 2014
<a href="#">100</a>	Chicago	\$879,979	35,281
<a href="#">112</a>	Buffalo	\$1,088,461	45,023
<a href="#">115</a>	Dallas	\$811,920	31,419
<a href="#">123</a>	St Louis	\$1,366,502	55,631
<a href="#">153</a>	Phoenix	\$607,924	21,315
<a href="#">171</a>	Seattle	\$574,384	21,557
<a href="#">172</a>	Raleigh-Durham	\$875,126	35,274
<a href="#">185</a>	Philadelphia	\$678,110	26,203
<a href="#">187</a>	Pittsburgh	\$251,223	9,138
<a href="#">207</a>	Quebec QC	\$1,141,740	45,591
<a href="#">229</a>	Calgary AB	\$655,085	26,769
<a href="#">249</a>	Winnipeg MB	\$853,129	31,875
<a href="#">296</a>	St. John NB	\$291,324	11,763
<b>Grand Total</b>		<b>\$10,074,906</b>	<b>396,838</b>

The next image shows the view after drilling down by header to the Product Category level. All of the Product Categories for all Ship-To Markets are displayed.

See the next three images for illustrations of how the view results will vary depending on whether a Top, Recursive, or Overall Count filter was applied to the view.

<a href="#">Ship-To Market</a>	<b>SMkt Long Description</b>	<a href="#">Product Category</a>	Daily Sales Amounts Wk 1 to Wk 30 2014	Daily Sales Units Wk 1 to Wk 30 2014
<a href="#">100</a>	Chicago	<a href="#">Fresh Vegetables</a>	\$176,459	7,817
		<a href="#">Canned Fruit</a>	\$351,386	14,467
		<a href="#">Pork</a>	\$57,620	1,901
		<a href="#">Beef</a>	\$23,096	1,063
		<a href="#">Fresh Fruit</a>	\$136,662	6,612
		<a href="#">Frozen Fruit Products</a>	\$6,471	181
		<a href="#">Frozen Prepared Dinners</a>	\$128,284	3,240
<a href="#">112</a>	Buffalo	<a href="#">Fresh Vegetables</a>	\$140,859	6,023
		<a href="#">Canned Fruit</a>	\$601,066	26,153
		<a href="#">Pork</a>	\$79,821	2,964
		<a href="#">Beef</a>	\$37,514	1,389
		<a href="#">Fresh Fruit</a>	\$109,279	5,196
		<a href="#">Frozen Fruit Products</a>	\$11,274	334
		<a href="#">Frozen Prepared Dinners</a>	\$108,647	2,962
<a href="#">115</a>	Dallas	<a href="#">Fresh Vegetables</a>	\$117,708	5,710
		<a href="#">Canned Fruit</a>	\$292,976	11,012

## Top Count Results

Here's what the view looks like after applying a Top 3 Count filter to Daily Sales Units. Since Top Count filters are applied only to the most detailed subtotal level displayed in a view, only the top 3 Product Categories for **every** Ship-To Market are displayed.

The screenshot shows a software interface with a table of sales data. At the top, there are navigation icons and a status bar indicating '1 to 25 of 40' and '1 to 2 of 2'. Below the navigation is a 'View Name: Top N Count Multiple Levels of Analysis' and a 'View Filter' dropdown. A red box highlights the 'Top Count 3' filter applied to the 'Daily Sales Units' column. The table has the following columns: Ship-To Market, SMkt Long Description, Product Category, Daily Sales Amounts Wk 1 to Wk 30 2014, and Daily Sales Units Wk 1 to Wk 30 2014. The data is grouped by Ship-To Market, with each market having up to three product categories listed.

Ship-To Market	SMkt Long Description	Product Category	Daily Sales Amounts Wk 1 to Wk 30 2014	Daily Sales Units Wk 1 to Wk 30 2014
100	Chicago	Canned Fruit	\$351,386	14,467
		Fresh Vegetables	\$176,459	7,817
		Fresh Fruit	\$136,662	6,612
112	Buffalo	Canned Fruit	\$601,066	26,153
		Fresh Vegetables	\$140,859	6,023
		Fresh Fruit	\$109,279	5,196
115	Dallas	Canned Fruit	\$292,976	11,012
		Fresh Vegetables	\$117,708	5,710
		Frozen Prepared Dinners	\$173,301	4,762
123	St Louis	Canned Fruit	\$1,010,252	42,698
		Fresh Vegetables	\$128,965	5,711
		Fresh Fruit	\$58,664	2,466
153	Phoenix	Canned Fruit	\$251,995	8,625
		Fresh Vegetables	\$105,296	4,344
		Fresh Fruit	\$60,009	3,135
171	Seattle	Canned Fruit	\$224,771	7,631
		Fresh Fruit	\$93,038	4,630
		Fresh Vegetables	\$82,698	3,688
172	Raleigh-Durham	Canned Fruit	\$476,031	19,693
		Fresh Fruit	\$114,898	5,356
		Fresh Vegetables	\$75,352	3,812
185	Philadelphia	Canned Fruit	\$416,695	17,542
		Fresh Vegetables	\$57,181	2,201
		Fresh Fruit	\$49,388	2,095
187	Pittsburgh	Canned Fruit	\$77,387	2,281

### Recursive Top Count Results

Here's what the view looks like when you change the filter to a Recursive Top 3 Count. Since Recursive Count filters are applied to all subtotal levels displayed in a view, only the top 3 Product Categories from each of the top 3 Ship-To Markets are displayed.

View Name: *Top N Count Multiple Levels of Analysis*  
View Filter

Recursive Top Count 3

Ship-To Market	SMkt Long Description	Product Category	Daily Sales Amounts Wk 1 to Wk 30 2014	Daily Sales Units Wk 1 to Wk 30 2014
123	St Louis	Canned Fruit	\$1,010,252	42,698
		Fresh Vegetables	\$128,965	5,711
		Fresh Fruit	\$58,664	2,466
207	Quebec QC	Canned Fruit	\$635,903	25,666
		Fresh Vegetables	\$144,927	6,275
		Fresh Fruit	\$99,829	5,655
112	Buffalo	Canned Fruit	\$601,066	26,153
		Fresh Vegetables	\$140,859	6,023
		Fresh Fruit	\$109,279	5,196
<b>Grand Total</b>			<b>\$2,929,745</b>	<b>125,844</b>

### Overall Top Count Results

Here's what the view looks like when you change the filter to an Overall Top 3 Count. Since Overall Top Count filters are applied to only the most detailed level displayed in the view, only the top 3 Ship-to Market/Product Category combinations in terms of overall sales units are displayed.

View Name: *Top N Count Multiple Levels of Analysis*  
View Filter

Overall Top Count 3

Ship-To Market	SMkt Long Description	Product Category	Daily Sales Amounts Wk 1 to Wk 30 2014	Daily Sales Units Wk 1 to Wk 30 2014
123	St Louis	Canned Fruit	\$1,010,252	42,698
112	Buffalo	Canned Fruit	\$601,066	26,153
207	Quebec QC	Canned Fruit	\$635,903	25,666
<b>Grand Total</b>			<b>\$2,247,221</b>	<b>94,517</b>

## Example 2 – “Percent” Filters

Here is a view with no filtering applied to its measure items and no other levels drilled to yet.

<span style="float: right;">1 to 23 of 23   1 to 6 of 6</span>						
<span>View Name: <i>Top N Percent Multiple Levels of Analysis</i></span>						
<span>View Filter</span>						
<span>▼ Year Based &gt;&gt;</span>		<span>Current Year</span>		<span>Last Year</span>		<span>Grand Total</span>
<span>▼ Customer Parent</span>		<span>Actual Sales Amount</span>	<span>Actual Sales Units</span>	<span>Actual Sales Amount</span>	<span>Actual Sales Units</span>	<span>Actual Sales Amount</span>
<a href="#">Wilder Foods</a>	\$988,190,296	20,784,963	\$1,945,532,956	40,614,753	\$2,933,723,251	
<a href="#">Sumpter Distribution</a>	\$268,517,849	4,882,917	\$542,787,394	9,700,909	\$811,305,243	
<a href="#">St Louis Dist Inc</a>	\$32,516,509	539,063	\$69,144,235	1,098,868	\$101,660,744	
<a href="#">Southwest Inc</a>	\$44,557,893	723,721	\$90,696,698	1,453,994	\$135,254,591	
<a href="#">Smith Inc</a>	\$31,539,124	533,642	\$63,012,323	1,054,314	\$94,551,446	
<a href="#">Quebec Foods</a>	\$38,144,729	587,609	\$73,453,037	1,131,060	\$111,597,766	
<a href="#">Prestwick Inc</a>	\$64,239,197	1,112,737	\$132,850,579	2,253,739	\$197,089,776	
<a href="#">Penn Brands</a>	\$76,477,776	1,219,030	\$153,320,082	2,407,532	\$229,797,858	
<a href="#">Packingham Corp</a>	\$33,005,636	535,474	\$65,864,346	1,042,991	\$98,869,981	
<a href="#">Pacific Corp</a>	\$28,873,974	464,822	\$55,495,871	889,367	\$84,369,845	
<a href="#">Oliveri</a>	\$113,868,098	2,128,039	\$229,817,815	4,222,725	\$343,685,913	
<a href="#">NY Foods</a>	\$34,081,846	543,282	\$65,224,607	1,042,132	\$99,306,453	
<a href="#">Montelissi</a>	\$25,772,379	427,196	\$51,695,819	830,525	\$77,468,197	
<a href="#">Midwest Providers</a>	\$62,545,804	1,022,632	\$122,908,486	1,976,354	\$185,454,290	
<a href="#">Maple Tree</a>	\$28,714,464	476,372	\$56,066,296	900,162	\$84,780,760	
<a href="#">Harrington's</a>	\$432,533,742	6,738,617	\$849,596,667	13,102,262	\$1,282,130,409	
<a href="#">Good Foods, Inc.</a>	\$356,819,117	5,337,602	\$709,963,424	10,585,136	\$1,066,782,542	
<a href="#">Dallas Food Service</a>	\$31,312,694	518,351	\$62,533,410	1,026,362	\$93,846,104	
<a href="#">Chicagos Finest</a>	\$42,011,896	657,269	\$83,871,702	1,285,344	\$125,883,598	
<a href="#">Canadian Imports Inc</a>	\$34,835,640	569,798	\$67,498,896	1,095,843	\$102,334,536	
<a href="#">Auburn Providers</a>	\$26,644,294	435,214	\$54,442,984	882,992	\$81,087,278	
<a href="#">Alberta Foods</a>	\$31,714,545	515,296	\$63,950,442	1,029,967	\$95,664,988	
<b>Grand Total</b>	<b>\$2,826,917,501</b>	<b>50,753,647</b>	<b>\$5,609,728,068</b>	<b>99,627,330</b>	<b>\$8,436,645,569</b>	

The next image shows the view after drilling down by header to the Product Category level. All of the Product Categories for all Customer Parents are displayed.

See the next three images for illustrations of how the view results will vary depending on whether a Bottom, Recursive, or Overall Percent filter was applied to the view.

<span style="float: right;">1 to 25 of 155   1 to 6 of 6</span>							
<span>View Name: <i>Top N Percent Multiple Levels of Analysis</i></span>							
<span>View Filter</span>							
	<span>▼ Year Based &gt;&gt;</span>	<span>Current Year</span>		<span>Last Year</span>		<span>Grand Total</span>	
<span>▼ Customer Parent</span>	<span>Product Category</span>	<span>Actual Sales Amount</span>	<span>Actual Sales Units</span>	<span>Actual Sales Amount</span>	<span>Actual Sales Units</span>	<span>Actual Sales Amount</span>	<span>Actual Sales Amount</span>
<a href="#">Wilder Foods</a>	<a href="#">Fresh Vegetables</a>	\$43,360,536	858,095	\$88,116,887	1,720,820	\$131,477,422	
	<a href="#">Canned Fruit</a>	\$837,969,453	18,294,844	\$1,637,856,034	35,613,655	\$2,475,825,487	
	<a href="#">Pork</a>	\$18,353,016	270,925	\$37,585,226	546,034	\$55,938,242	
	<a href="#">Beef</a>	\$14,294,909	223,181	\$30,083,825	470,176	\$44,378,734	
	<a href="#">Fresh Fruit</a>	\$30,549,965	615,023	\$61,542,687	1,227,553	\$92,092,652	
	<a href="#">Frozen Fruit Products</a>	\$11,211,182	167,515	\$20,174,836	295,269	\$31,386,018	
	<a href="#">Frozen Prepared Dinners</a>	\$32,451,236	355,379	\$70,173,460	741,247	\$102,624,696	
<a href="#">Sumpter Distribution</a>	<a href="#">Fresh Vegetables</a>	\$49,470,236	980,596	\$100,845,734	1,966,132	\$150,315,969	
	<a href="#">Canned Fruit</a>	\$94,441,475	1,997,978	\$183,758,138	3,880,872	\$278,199,613	
	<a href="#">Pork</a>	\$16,651,792	246,089	\$33,591,090	485,748	\$50,242,882	
	<a href="#">Beef</a>	\$19,662,029	299,999	\$39,082,548	612,294	\$58,744,576	
	<a href="#">Fresh Fruit</a>	\$39,025,185	772,591	\$77,686,820	1,520,121	\$116,712,005	
	<a href="#">Frozen Fruit Products</a>	\$13,930,898	203,919	\$28,866,570	417,264	\$42,797,468	
<a href="#">St Louis Dist Inc</a>	<a href="#">Frozen Prepared Dinners</a>	\$35,336,235	381,743	\$78,956,494	818,477	\$114,292,730	
	<a href="#">Fresh Vegetables</a>	\$6,291,713	135,100	\$13,264,067	281,084	\$19,555,780	
	<a href="#">Canned Fruit</a>	\$7,920,866	113,929	\$14,965,889	215,057	\$22,886,755	
	<a href="#">Pork</a>	\$2,410,875	35,698	\$4,947,371	72,095	\$7,358,246	
	<a href="#">Beef</a>	\$3,456,106	54,712	\$6,186,792	95,583	\$9,642,897	
	<a href="#">Fresh Fruit</a>	\$5,223,177	112,287	\$10,541,104	219,420	\$15,764,281	
	<a href="#">Frozen Fruit Products</a>	\$2,635,239	38,886	\$5,085,008	74,818	\$7,720,247	
<a href="#">Southwest Inc</a>	<a href="#">Frozen Prepared Dinners</a>	\$4,578,534	48,450	\$14,154,004	140,811	\$18,732,538	
	<a href="#">Fresh Vegetables</a>	\$7,236,723	148,119	\$14,120,725	280,834	\$21,357,448	
	<a href="#">Canned Fruit</a>	\$24,765,482	374,546	\$48,622,971	734,442	\$73,388,453	
	<a href="#">Pork</a>	\$1,473,336	21,338	\$2,946,672	42,676	\$4,420,048	
	<a href="#">Beef</a>	\$1,473,336	21,338	\$2,946,672	42,676	\$4,420,048	
	<a href="#">Fresh Fruit</a>	\$1,473,336	21,338	\$2,946,672	42,676	\$4,420,048	
	<a href="#">Frozen Fruit Products</a>	\$1,473,336	21,338	\$2,946,672	42,676	\$4,420,048	



## Bottom Percent Results

Here's what the view looks like after applying a Bottom 10 Percent filter to Actual Sales Amount. The bottom 10% of Product Categories for **every** Customer Parent is displayed. The Bottom Percent filter was applied only to the most detailed subtotal level, Product Category.

View Name: <i>Top 11 Percent Multiple Levels of Analysis</i>						
View Filter						
Customer Parent	Product Category	Actual Sales Amount	Actual Sales Units	Last Year Actual Sales Amount	Last Year Actual Sales Units	Group
Wilder Foods	Frozen Fruit Products	\$11,211,182	167,515	\$20,174,836	295,269	
	Beef	\$14,294,909	223,181	\$30,083,825	470,176	
	Pork	\$18,353,016	270,925	\$37,585,226	546,034	
	Fresh Fruit	\$30,549,965	615,023	\$61,542,687	1,227,553	
	Frozen Prepared Dinners	\$32,451,236	355,379	\$70,173,460	741,247	
Sumpter Distribution	Frozen Fruit Products	\$13,930,898	203,919	\$28,866,570	417,264	
	Pork	\$16,651,792	246,089	\$33,591,090	485,748	
St Louis Dist Inc	Pork	\$2,410,875	35,698	\$4,947,371	72,095	
	Frozen Fruit Products	\$2,635,239	38,886	\$5,085,008	74,818	
Southwest Inc	Frozen Fruit Products	\$953,501	13,993	\$2,281,223	32,925	
	Pork	\$1,473,736	21,228	\$2,787,021	39,550	
	Beef	\$1,742,478	28,444	\$4,396,268	69,043	
	Frozen Prepared Dinners	\$2,944,235	31,441	\$6,645,070	68,310	
Smith Inc	Frozen Fruit Products	\$467,880	7,063	\$1,948,643	27,970	
	Pork	\$2,326,782	34,706	\$5,996,366	87,630	
	Beef	\$2,850,093	47,229	\$5,964,097	99,425	
Quebec Foods	Frozen Fruit Products	\$1,382,423	20,350	\$3,477,189	50,644	
	Beef	\$2,175,293	33,293	\$4,313,989	63,496	
	Pork	\$3,164,429	45,320	\$5,100,858	72,573	
Prestwick Inc	Frozen Fruit Products	\$3,788,338	57,289	\$6,682,377	99,885	
	Beef	\$4,838,456	77,105	\$8,648,467	142,084	
Penn Brands	Frozen Fruit Products	\$3,839,591	58,530	\$7,207,944	109,341	
	Beef	\$4,919,569	76,379	\$9,252,252	142,432	
Packingham Corp	Frozen Fruit Products	\$1,740,793	24,683	\$3,579,342	51,005	

### Recursive Bottom Percent Results

Here's what the view looks like when you change the filter to a Recursive Bottom 10 Percent. The bottom 10% of Product Categories from each of the bottom 10% of Customer Parents is displayed. The Recursive Bottom Percent filter was applied to each level, Customer Parent and Product Category.

View Name: <i>Top N Percent Multiple Levels of Analysis</i>						
View Filter						
	▼ Base	Recursive Bottom Percent 10			Last Year	Gr
▼ Customer Parent	Product Category	Actual Sales Amount	Actual Sales Units	Actual Sales Amount	Actual Sales Units	Act A
<a href="#">St Louis Dist Inc</a>	<a href="#">Pork</a>	\$2,410,875	35,698	\$4,947,371	72,095	
	<a href="#">Frozen Fruit Products</a>	\$2,635,239	38,886	\$5,085,008	74,818	
<a href="#">Smith Inc</a>	<a href="#">Frozen Fruit Products</a>	\$467,880	7,063	\$1,948,643	27,970	
	<a href="#">Pork</a>	\$2,326,782	34,706	\$5,996,366	87,630	
	<a href="#">Beef</a>	\$2,850,093	47,229	\$5,964,097	99,425	
<a href="#">Packingham Corp</a>	<a href="#">Frozen Fruit Products</a>	\$1,740,793	24,683	\$3,579,342	51,005	
	<a href="#">Beef</a>	\$1,754,651	26,344	\$3,726,302	55,011	
<a href="#">Pacific Corp</a>	<a href="#">Frozen Fruit Products</a>	\$880,915	13,573	\$421,994	6,328	
	<a href="#">Pork</a>	\$955,101	13,878	\$1,717,374	24,935	
	<a href="#">Beef</a>	\$2,283,039	30,983	\$4,765,971	69,182	
<a href="#">NY Foods</a>	<a href="#">Pork</a>	\$2,395,073	35,297	\$4,876,617	70,948	
	<a href="#">Frozen Fruit Products</a>	\$2,509,613	36,462	\$4,656,899	67,895	
<a href="#">Montelissi</a>	<a href="#">Frozen Fruit Products</a>	\$902,365	14,222	\$1,875,821	29,250	
	<a href="#">Pork</a>	\$1,416,669	21,400	\$3,238,271	47,230	
	<a href="#">Frozen Prepared Dinners</a>	\$2,956,182	33,541	\$6,615,240	71,874	
<a href="#">Maple Tree</a>	<a href="#">Frozen Fruit Products</a>	\$1,889,081	27,738	\$4,083,118	59,173	
	<a href="#">Canned Fruit</a>	\$2,115,213	31,537	\$4,052,995	60,376	
<a href="#">Dallas Food Service</a>	<a href="#">Frozen Fruit Products</a>	\$1,372,583	21,018	\$3,228,222	48,795	
	<a href="#">Beef</a>	\$1,852,935	33,350	\$4,293,614	74,783	
<a href="#">Auburn Providers</a>	<a href="#">Frozen Fruit Products</a>	\$1,450,925	21,018	\$3,921,626	56,009	
	<a href="#">Pork</a>	\$2,189,380	32,014	\$4,048,184	59,498	
<a href="#">Alberta Foods</a>	<a href="#">Frozen Fruit Products</a>	\$1,639,217	24,569	\$3,221,392	47,610	
	<a href="#">Pork</a>	\$2,832,686	42,418	\$5,816,543	85,749	
<b>Grand Total</b>		<b>\$43,827,289</b>	<b>647,628</b>	<b>\$92,081,012</b>	<b>1,347,590</b>	

## Overall Bottom Percent Results

Here's what the view looks like when you change the filter to an Overall Bottom 10 Percent. Only the bottom 10% of Customer Parent/Product Category combinations in terms of overall sales amount is displayed.

Based On		Overall Bottom Percent 10		Last Year		Gr
Customer Parent	Product Category	Actual Sales Amount	Actual Sales Units	Actual Sales Amount	Actual Sales Units	Act
St Louis Dist Inc	Pork	\$2,410,875	35,698	\$4,947,371	72,095	
	Frozen Fruit Products	\$2,635,239	38,886	\$5,085,008	74,818	
	Beef	\$3,456,106	54,712	\$6,186,792	95,583	
	Frozen Prepared Dinners	\$4,578,534	48,450	\$14,154,004	140,811	
	Fresh Fruit	\$5,223,177	112,287	\$10,541,104	219,420	
	Fresh Vegetables	\$6,291,713	135,100	\$13,264,067	281,084	
Southwest Inc	Frozen Fruit Products	\$953,501	13,993	\$2,281,223	32,925	
	Pork	\$1,473,736	21,228	\$2,787,021	39,550	
	Beef	\$1,742,478	28,444	\$4,396,268	69,043	
	Frozen Prepared Dinners	\$2,944,235	31,441	\$6,645,070	68,310	
	Fresh Fruit	\$5,441,738	105,949	\$11,843,420	228,891	
Smith Inc	Frozen Fruit Products	\$467,880	7,063	\$1,948,643	27,970	
	Pork	\$2,326,782	34,706	\$5,996,366	87,630	
	Beef	\$2,850,093	47,229	\$5,964,097	99,425	
	Frozen Prepared Dinners	\$4,968,586	53,910	\$8,371,959	89,300	
	Canned Fruit	\$5,646,516	87,146	\$10,784,036	166,881	
	Fresh Fruit	\$6,319,050	130,022	\$13,142,999	262,344	
Quebec Foods	Frozen Fruit Products	\$1,382,423	20,350	\$3,477,189	50,644	
	Beef	\$2,175,293	33,293	\$4,313,989	63,496	
	Pork	\$3,164,429	45,320	\$5,100,858	72,573	
	Fresh Fruit	\$4,385,462	81,533	\$9,112,729	171,547	
	Fresh Vegetables	\$5,795,266	117,843	\$12,188,465	235,240	
Prestwick Inc	Frozen Fruit Products	\$3,788,338	57,289	\$6,682,377	99,885	
	Beef	\$4,838,456	77,105	\$8,648,467	142,084	

## Edit the Information Displayed in the Select and Advanced Select Members Windows

1. In either window, click More then choose Display Options.
2. Make the desired changes in the [Display Options window](#):
  - Select or de-select display columns to change which ones display.
  - Select a value from the Return Members list to change how many members display per page in the search results section of the [Advanced Select Members window](#).
3. Click OK.

## Factors Influencing Default Settings in Filtering Windows

The default state of the following windows depends on how you accessed the window, either from a view or from an administrative page such as Role Maintenance or User List Maintenance.

- [Select User List Filter window](#)
- [Select Members](#), [Advanced Select Members](#), and [Paste Members windows](#)

### Windows Accessed from Views or View Prompt Window

When filtering windows are opened from a view, the display columns that display by default are the values and/or attribute relationships showing in the grid. The Search By drop-down lists in the Select and Advanced Select Members windows depend on administrator settings in the Select Members Options window. If an attribute relationship was selected in those settings for the applicable level, then Search By will default to that attribute relationship. If System Defined was selected in those administrative settings for the level, then searches will default to the level's display text in the view.

The Buyer level in this view has three attribute relationships available for use in the view, and two of them are showing in the view. The Buyer Short Description is the display text, and the Buyer Phone Number also is on display. Those two attribute relationships are the default display columns in the filtering windows. The Buyer Short Description displays first and is the default selection for Search By. This is the default because the administrative Select Members Options settings for that level were set to System Defined and because that attribute relationship is the display text in the view.

The screenshot displays a software interface with a data grid and two side panels. The grid shows various sales and cost metrics for different categories. The 'View Explorer' panel on the right shows a tree structure of the view, with 'Buyer' selected. The 'Properties - Buyer' panel at the bottom right shows settings for the selected 'Buyer' level, with 'Display Text' set to 'Buyer Short Description'.

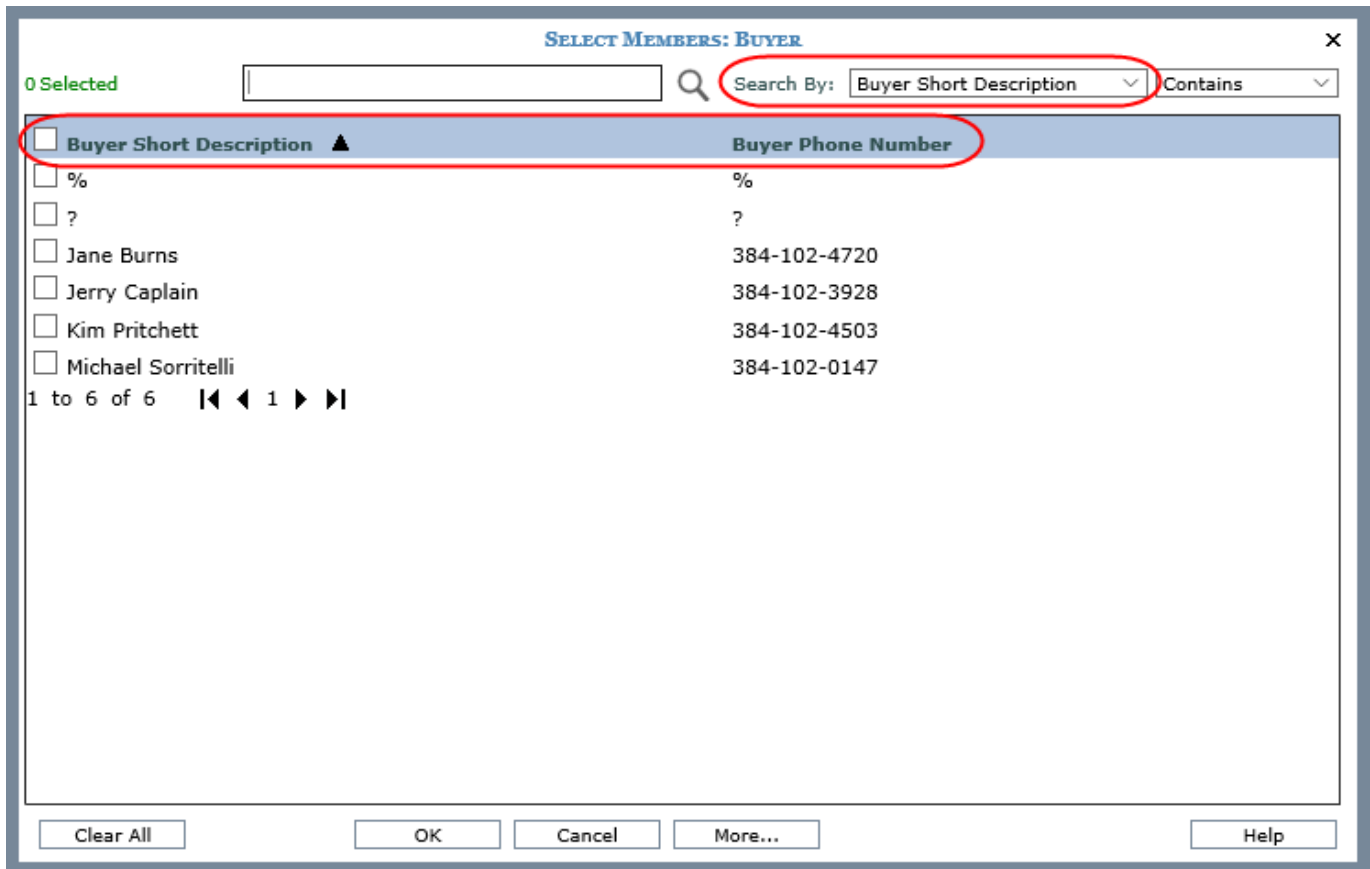
Buyer >>	Jane Burns				
Buyer Phone Number	384-102-4720				
Ship-To Territory >>	1100			1101	
STerr Long Description	Southwest				South Cen
Customer SIC Code >>	Whlsaler; Groc. Gen. Line	Whlsaler; Groc/Rel., NEC	All Others	1100 Total	Whlsaler; Groc.
SIC Long Description	Wholesaler; Groceries General	Wholesaler; Grocery/Related NE			Wholesaler; Groce
Actual Sales Sales Amount Per1 2012 to Per45 2014	\$49,493,425	\$51,380,843		\$100,874,268	
Actual Sales Sales Return Units Per1 2012 to Per45 2014	(13,880)	(15,986)		(29,866)	
Actual Sales Sales Units Per1 2012 to Per45 2014	795,569	825,533		1,621,103	
Actual Sales Ext Actual Cost Per1 2012 to Per45 2014	\$20,137,634	\$21,909,932		\$42,047,567	
Actual Sales Ext Handling Cost Per1 2012 to Per45 2014	\$771,050	\$838,245		\$1,609,294	

**View Explorer**

- Buyer and Ship-To Sales Etc. Figures
  - Parameter Groups
  - Grid
    - Rows
    - Columns
      - Distribution Center Warehouse
      - Vendor Buyer
      - Buyer
        - Buyer
          - Buyer Short Description
          - Buyer Fax Number
          - Buyer Phone Number
        - Ship-To Territory
        - Customer SIC Code
        - Product Type
        - Customer Sold-To
        - UPC Global Number
      - View Filter
      - Measure Items

**Properties - Buyer**

Filter	None	...
Sort	None	▼
Total	Yes	▼
All Others	Yes	▼
Visible	Yes	▼
Display Text	Buyer Short Description	▼



When running views with parameters, a Display Text property for parameters can be used to customize what users see when they access filtering windows from the View Prompt window. When the property is set to View, the filtering window behaves the same as described in the prior section. When the property is set to an attribute of the level, the defaults in the filtering windows will use that attribute when windows are accessed from the View Prompt window.

**Note:** Display Text settings for a parameter only take effect if the Search By setting for a level in the Select Members Options administrator window are set to System Defined. If an attribute relationship is selected for a level's Search By setting in Select Members Options, then Search By will default to that administrator-specified attribute relationship.

The following View includes a Select Members parameter on the UPC Global Number level. The parameter Display Text is set to UPC Long Description. Information displayed in the grid for the level are UPC Commodity Code, ABC Classification, and Short Description. The Search By setting in Select Members Options for the level is set to System Defined. When users access the Select and Advanced Select Members from the View Prompt window to make their UPC selections, the Search By and first display column will default to the UPC Long Description, according to the parameter Display Text setting.

View Name: *UPC Daily Sales by Ship-To Region*

View Filter

Ship-To Region >>			E. US		S. US		MidW US
SRgn Country			USA		USA		USA
UPC Global Number	UPC ABC Classification	UPC Short Description	Daily Sales Amount Jan 14 to Sep 14	Daily Sales Units Jan 14 to Sep 14	Daily Sales Amount Jan 14 to Sep 14	Daily Sales Units Jan 14 to Sep 14	Daily Sales Amount Jan 14 to Sep 14
0 - 39484 - 92837 - 1	B	Apples Red Delicious	\$9,574,364	6,905	\$13,700,369	10,271	\$10,848,5
0 - 24000 - 12430 - 4	A	Applesauce 106oz BR*	\$6,421,048	1,546	\$5,651,066	2,346	\$6,560,4
0 - 24000 - 12431 - 4	A	Applesauce 106oz PL*	\$13,563,955	1,797	\$19,136,315	5,825	\$17,732,0
0 - 24000 - 12530 - 4	A	Applesauce 12oz BR*	\$6,062,108	1,478	\$3,188,540	676	\$7,927,1
0 - 24000 - 12531 - 4	A	Applesauce 12oz PL*	\$18,921,470	8,768	\$8,790,517	3,887	\$27,569,8
0 - 02749 - 25408 - 6	C	Asparagus	\$20,400,226	2,871	\$19,747,022	5,475	\$25,778,2
0 - 79453 - 02938 - 9	A	Baby Carrots	\$7,456,195	4,426	\$7,923,022	2,177	\$8,523,2
0 - 39484 - 24300 - 1	B	Bananas	\$2,613,118	1,674	\$3,187,710	1,273	\$3,500,8
0 - 24000 - 12432 - 4	A	Blackberries 106oz BR*	\$2,753,608	311	\$2,990,502	395	
0 - 24000 - 12532 - 4	A	Blackberries 12oz BR*	\$3,267,656	975	\$1,266,028	373	\$4,144,2
0 - 24000 - 12477 - 4	B	Blueberries 106oz BR*	\$1,304,435	126	\$1,910,835	288	\$1,715,5
0 - 24000 - 12577 - 4	B	Blueberries 12oz BR*	\$2,089,920	293	\$897,349	86	\$2,777,2
0 - 24000 - 12456 - 4	C	Blueberry Filling 106oz B	\$2,330,422	737	\$5,375,531	1,896	
0 - 24000 - 12450 - 4	C	Blueberry Filling 106oz P			\$548,892	198	

View Explorer

- UPC Daily Sales by Ship-To Region
  - Parameter Groups
    - ShipTo Region Parameters
      - UPC Parameters
        - MemberParameter
  - Grid
    - Rows
    - Columns
    - View Filter
    - Measure Items
    - Presentation
    - Charts

Properties - MemberParameter

Name	MemberParameter
Type	Select Members
Prompt	Choose UPC's to Review
Default Value	
Display Text	UPC Long Description

SELECT MEMBERS: UPC GLOBAL NUMBER

0 Selected

Search By: *UPC Long Description* Contains

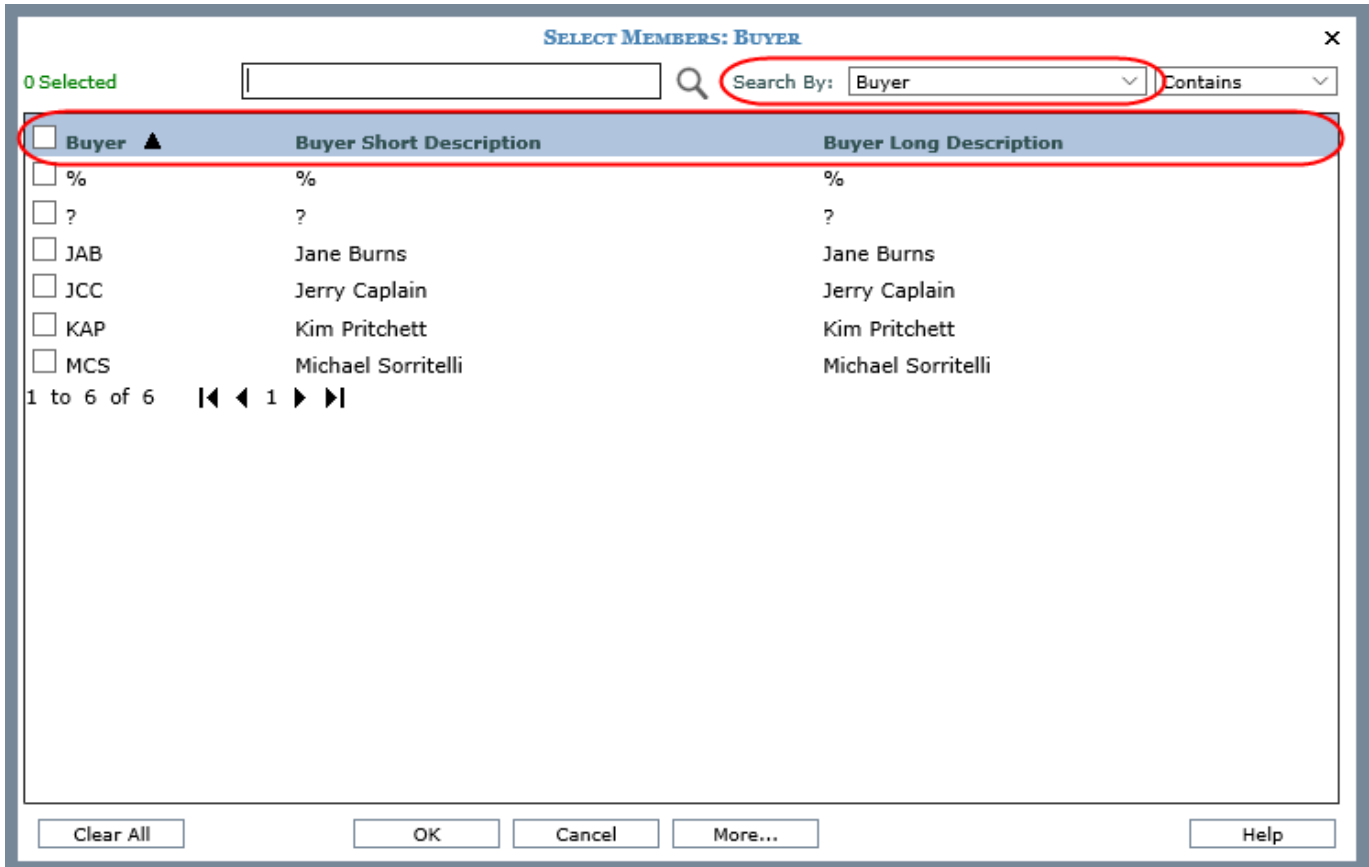
<input type="checkbox"/> UPC Long Description ▲	UPC ABC Classification	UPC Short Description
<input type="checkbox"/> %	%	%
<input type="checkbox"/> ?	?	?
<input type="checkbox"/> Apple Filling 106oz BR*	B	Apple Filling 106oz BR*
<input type="checkbox"/> Apple Filling 106oz PL*	A	Apple Filling 106oz PL*
<input type="checkbox"/> Apple Filling 12oz BR*	B	Apple Filling 12oz BR*
<input type="checkbox"/> Apple Filling 12oz PL*	A	Apple Filling 12oz PL*
<input type="checkbox"/> Apples Red Delicious	B	Apples Red Delicious
<input type="checkbox"/> Applesauce 106oz BR*	A	Applesauce 106oz BR*
<input type="checkbox"/> Applesauce 106oz PL*	A	Applesauce 106oz PL*
<input type="checkbox"/> Applesauce 12oz BR*	A	Applesauce 12oz BR*
<input type="checkbox"/> Applesauce 12oz PL*	A	Applesauce 12oz PL*
<input type="checkbox"/> Asparagus	C	Asparagus
<input type="checkbox"/> Baby Carrots	A	Baby Carrots
<input type="checkbox"/> Bananas	B	Bananas
<input type="checkbox"/> Blackberries 106oz BR*	A	Blackberries 106oz BR*
<input type="checkbox"/> Blackberries 12oz BR*	A	Blackberries 12oz BR*
<input type="checkbox"/> Blueberries 106oz BR*	B	Blueberries 106oz BR*

Clear All OK Cancel More... Help

## Windows Accessed from Administrative Pages

The default display columns and Search By are determined by administrator settings when filtering windows are accessed from administrative pages. Administrators use a Select Members Options window to choose the defaults for each level.

Here is the Select Members window for the Buyer level shown in the first example. The window was accessed from the User List Maintenance window while setting up a user list. Based on administrator settings, the default Search By is value (Buyer) and the default display columns are value, Buyer Short Description, and Buyer Long Description.





## Guidelines for Sorting and Filtering on Totals

Here is some helpful information to know when sorting or filtering totals.

- Casual users can edit existing sorts and filters on totals.
- Advanced users and administrators can add new sorts and filters on totals and edit existing sorts and filters.
- This feature is available on the Grand Totals that are on the same axis as the measure items. For example, the measures items in this view are in columns. The Grand Totals in columns can have sorts and filters applied to them.

View Name: Returns by Lot, Reason Code

View Filter

Return Reason Code >>	624	625	Grand Total	
RtnCd Long Description	Damaged Product	Price		
Lot	Current Yr YTD Months Return Amt	Previous Yr YTD Months Return Amt	Current Yr YTD Months Return Amt	Previous Yr YTD Months Return Amt
<a href="#">19990101914001</a>	(\$475)	(\$448)	(\$289)	(\$3,431)
<a href="#">19990101914002</a>	(\$459)	(\$433)	(\$280)	(\$3,315)
<a href="#">19990101914003</a>	(\$629)	(\$593)	(\$383)	(\$4,538)
<a href="#">19990101914008</a>	(\$2,825)	(\$2,665)	(\$1,719)	(\$20,386)
<a href="#">19990101914304</a>	(\$1,921)	(\$1,812)	(\$1,169)	(\$13,863)
<a href="#">19990101914422</a>	(\$2,282)	(\$2,153)	(\$968)	(\$10,828)
<a href="#">19990101914602</a>	(\$1,024)	(\$966)	(\$1,068)	(\$6,972)
<a href="#">19990101914603</a>	(\$690)	(\$651)	(\$567)	(\$4,695)
<a href="#">19990101914604</a>	(\$238)	(\$224)	(\$101)	(\$1,128)
<a href="#">19990101924003</a>	(\$5,279)	(\$4,980)	(\$2,640)	(\$31,298)
<a href="#">19990101924015</a>	(\$1,046)	(\$987)	(\$637)	(\$7,548)
<a href="#">19990101924401</a>	(\$6,154)	(\$5,806)	(\$4,653)	(\$41,901)



## Named Sets

Year to Date (YTD) named sets are created by Stratum.Connector for Viewer during the processing of the Analysis Services database for your Stratum.Viewer environment. There will be YTD named sets created for each single level, absolute time dimension. The named sets will consist of the time members for a year up to the current period -- for example, days in the year up to the current day, weeks up to the current week, months up to the current month, and quarters up to the current quarter.

This table shows examples of types of Stratum.Viewer dimensions that would and wouldn't have named sets.

Dimension	Hierarchy	Level(s)	Has a Named Set?
Weeks	Weeks	Weeks	Yes. This is an absolute time dimension with a single level.
Year Weeks	Year Weeks	<ul style="list-style-type: none"> <li>• Year</li> <li>• Weeks</li> </ul>	No. This is an absolute time dimension, but it has multiple levels.
Year Based Weeks Based	Year Based Weeks Based	<ul style="list-style-type: none"> <li>• Year Based</li> <li>• Weeks Based</li> </ul>	No. This is a based time dimension.
Product Brand	Product Brand	Product Brand	No. This is not a time dimension.

Named sets can be used in Stratum.Viewer for period based analysis and filtering levels from single level, absolute time dimensions. The named sets also can be used for setting up calculated measure items. More details:

- [Named Sets Created for Single Level, Absolute Time Dimensions](#)
- [Accessing Named Sets and Using them in Views](#)

### Named Sets Created for Single Level Time Dimensions

Here are examples of named sets and their members that are created by Stratum.Connector for Viewer for single level, absolute time dimensions. Factors that determine the named sets are measure groups and their related Stratum.Server Structure Codes, the Based Periodic ViewSets in ViewGroups associated with the Structure Codes (excluding Based Year ViewSets), Categories in the Structure Codes, and Current Period information in the Stratum.Server database. For each Category in a Structure Code, a Named Set for each type of Based Periodic ViewSet is created.

Structure Code	ViewGroup Associated with Structure Code	Based Periodic ViewSets in the ViewGroup
Sales	Sales	Year Based
		Quarters Based
		Months Based
		Weeks Based
Inventory	Inventory	Year Based
		Quarters Based

		Months Based
		Weeks Based
Forecast	Forecast	Year Based
		Quarters Based
		Months Based

Additionally, the Structure Codes contain these Categories.

Structure Code	Category
Sales	Sales
Inventory	Inventory
Forecast	Forecast

Given this set up, Stratum.Connector for Viewer will create the following named sets. Their names consist of the Category name, a space, the text "YTD" (for year to date), another space, and the name of the Absolute Periodic ViewSet on which the Based Periodic ViewSet in the ViewGroup was based.

Structure Code	Named Set
Sales	Sales YTD Quarters
	Sales YTD Months
	Sales YTD Weeks
Inventory	Inventory YTD Quarters
	Inventory YTD Months
	Inventory YTD Weeks
Forecast	Forecast YTD Quarters
	Forecast YTD Months

**More Information:**

Named sets are comprised of members that make up the YTD Periods for the related Absolute Periodic ViewSet. Current Period information determines the member list for each named set. For example, if the current month in the Stratum.Server storage database is defined as April, the YTD Periods for the Months ViewSet would be January, February, March, and April. Given this, named sets such as Sales YTD Months and Forecast YTD Months would be comprised of the members January, February, March, and April.

Given the example named sets shown previously, if the Current Period was September 2014, then:

- The list of members for Sales YTD Quarters and other YTD Quarters named sets would be Q1, Q2, and Q3.
- The list of Members for Sales YTD Months and other YTD Months named sets would be January, February, March, April, May, June, July, August, and September.
- The list of Members for Sales YTD Weeks and other YTD Weeks named sets would be Week 1 through Week 38.

**Accessing Named Sets and Using Them in Views**

Named sets are accessed from the Select Named Set Filter window, which in turn is accessed from the Select Filter Method window when you are working with filters or working with expressions. Examples of using named sets follow. Remember, to use named sets you must be working with a single level, absolute time dimension such as Weeks, Months, Quarters, or Periods. When you are choosing a named set for a filter or expression, be sure that the set is relevant to the measure items in the view or expression. For example, if the measure item in a view is Actual Sales and you are filtering a level by a named set, choose one that pertains to Actual Sales rather than one pertaining to Budget.

**Named Set Used for a Filter**

The following view includes the Months level, which is from the Months time hierarchy and time dimension. Because the Months dimension is a single level, absolute time dimension, you can use the named sets for the Months level when working with the view. The Budget YTD Months named set was used to filter the level because Budget measure items are in the view. More information follows this image.

View Name: <i>Period Based Budget View</i>						
View Filter						
Year >>	2015			2014		
Months	Budget Budget Amount Working	Budget Budget Amount Frozen	Budget Budget Units Working	Budget Budget Units Frozen	Budget Budget Amount Working	Budget Budget Amount Frozen
January			2,293	8,341,792	\$373,945,683	\$4,222,380,810
February			5,765	5,920,590	\$262,448,013	\$2,481,689,811
March	\$464,814,077	\$490,889,486	8,010,147	8,406,831	\$371,851,261	\$4,222,380,810
April	\$492,567,438	\$520,199,772	8,801,982	8,970,905	\$394,053,951	\$4,222,380,810
May	\$512,879,272	\$541,651,071	8,357,900	9,282,902	\$410,303,418	\$4,222,380,810
June	\$509,645,159	\$538,235,529	8,134,081	9,139,116	\$407,716,127	\$4,222,380,810
July	\$605,162,241	\$639,110,984	10,635,023	10,844,762	\$484,129,793	\$5,382,235,529
August	\$717,565,679	\$757,820,095	11,592,988	12,744,824	\$574,052,543	\$6,051,622,241
September	\$524,254,824	\$553,664,775	9,970,425	9,335,601	\$419,403,859	\$4,222,380,810
<b>Grand Total</b>	<b>\$4,622,380,810</b>	<b>\$4,881,689,811</b>	<b>73,470,603</b>	<b>82,987,323</b>	<b>\$3,697,904,648</b>	<b>\$4,222,380,810</b>

To set up the filter, the Months level was right-clicked and Filter then Edit was selected from the pop-up menu that displayed. In the Select Members window that displayed by default, the More button was clicked then Change Filter Type was selected to open the Select Filter Method window. In that window, Named Set was selected and OK was clicked.

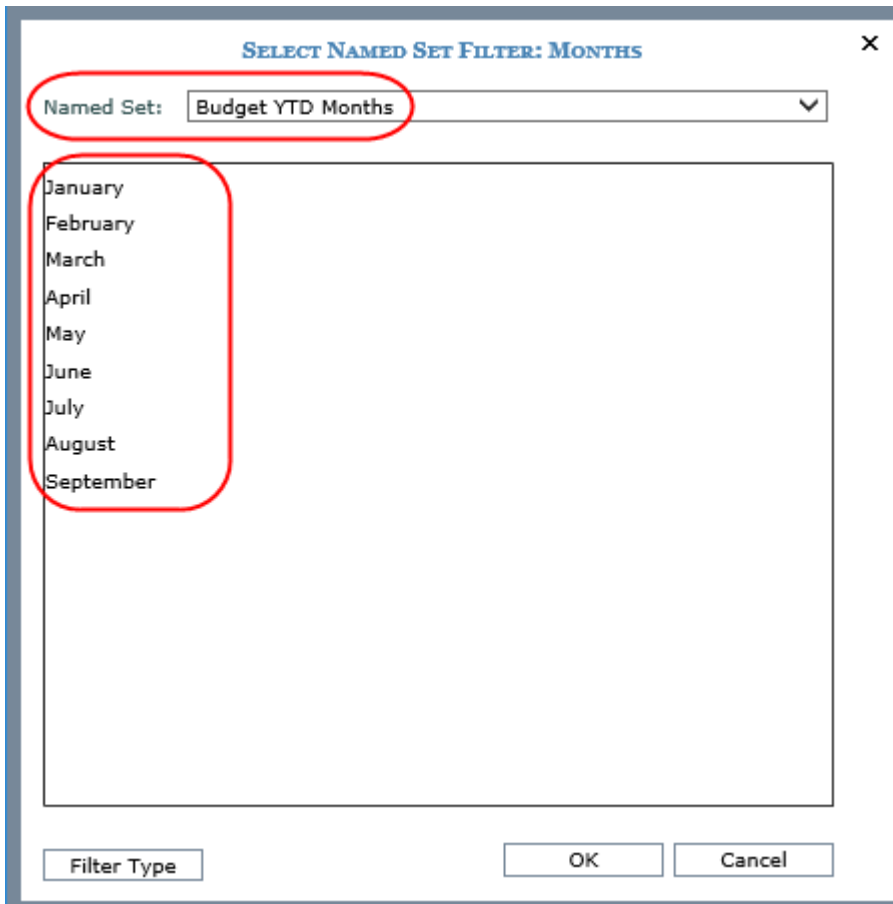
---

**Note:** Another option in the following window would have been to select Named Set, enter the name of the named set in the quick filter field, and click OK. In that case, the filter would be applied without accessing the Select Named Set Filter window.

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The Select Named Set Filter window displayed, and the Budget YTD Months named set was selected. The window displayed the members in the named set. Then, OK was clicked to apply the filter.



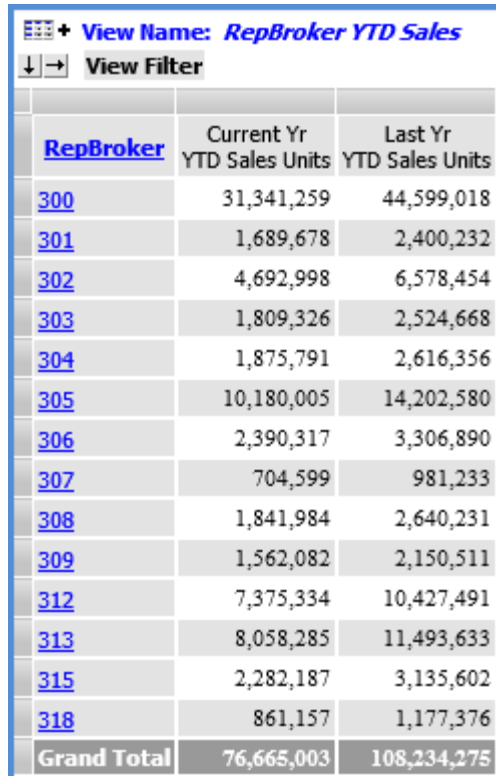
## Named Set Used for a Calculated Measure Item

Here is an example of named sets used for calculated measure items. Both YTD calculated measure items use a named set in their expression. The calculated measure items take into account data from all months up to and including the current month for the last year and current year. More information follows this image.

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**Note:** You can create a similar view using measure items with time ranges. The view would need to be one in which the Time Range property is enabled.

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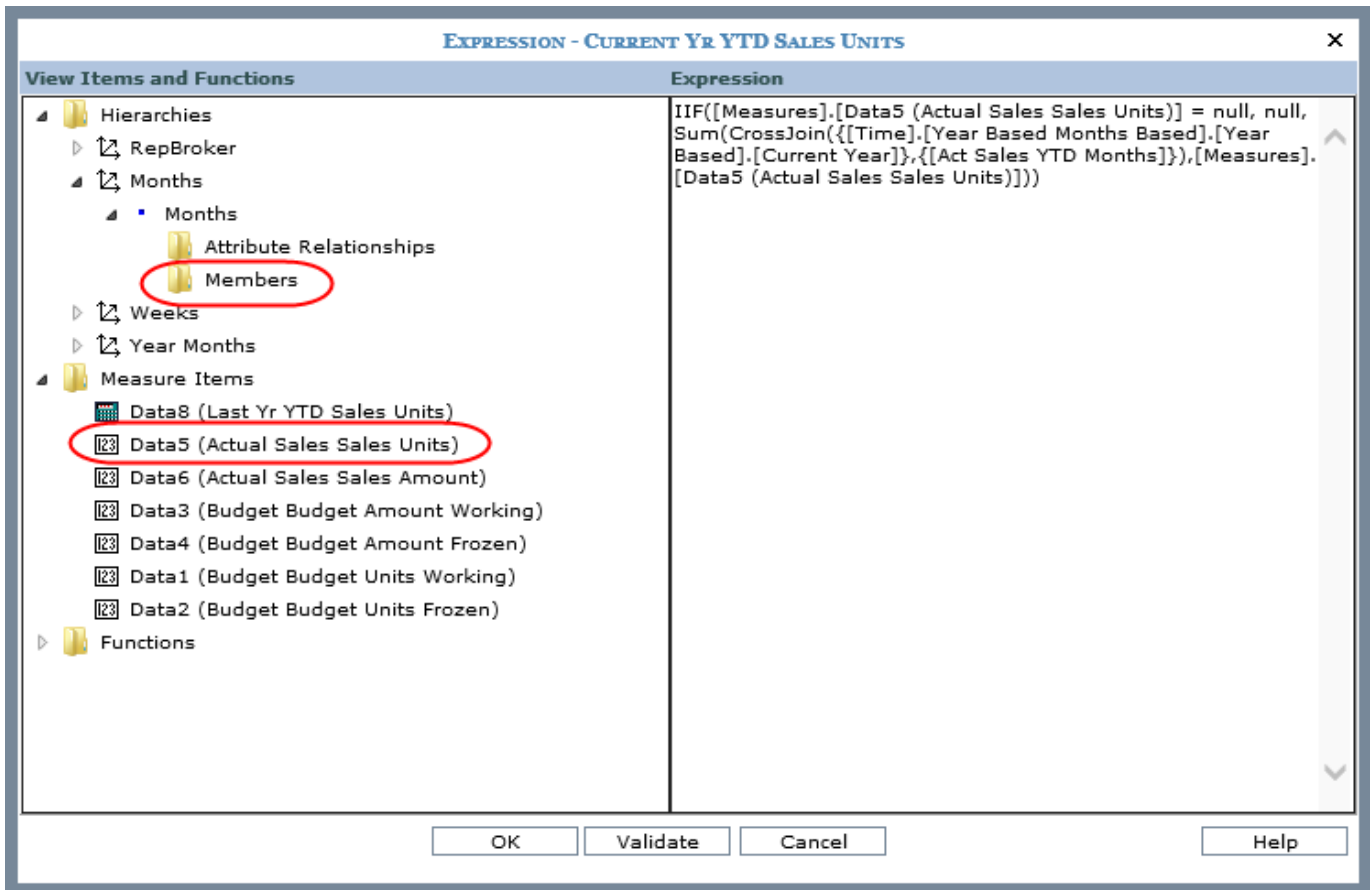


<a href="#">RepBroker</a>	Current Yr YTD Sales Units	Last Yr YTD Sales Units
<a href="#">300</a>	31,341,259	44,599,018
<a href="#">301</a>	1,689,678	2,400,232
<a href="#">302</a>	4,692,998	6,578,454
<a href="#">303</a>	1,809,326	2,524,668
<a href="#">304</a>	1,875,791	2,616,356
<a href="#">305</a>	10,180,005	14,202,580
<a href="#">306</a>	2,390,317	3,306,890
<a href="#">307</a>	704,599	981,233
<a href="#">308</a>	1,841,984	2,640,231
<a href="#">309</a>	1,562,082	2,150,511
<a href="#">312</a>	7,375,334	10,427,491
<a href="#">313</a>	8,058,285	11,493,633
<a href="#">315</a>	2,282,187	3,135,602
<a href="#">318</a>	861,157	1,177,376
<b>Grand Total</b>	<b>76,665,003</b>	<b>108,234,275</b>

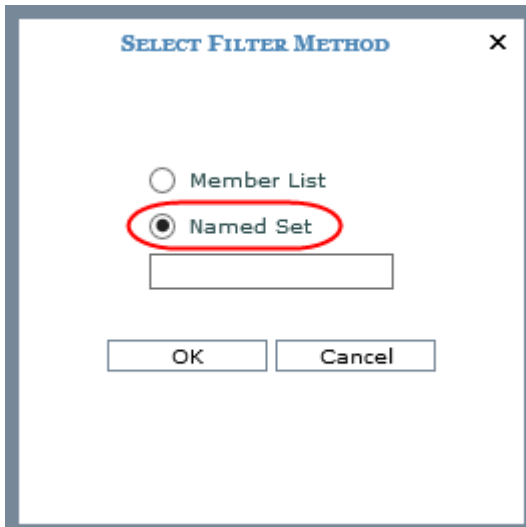
The expression for the first measure item is:

```
IIF([Measures].[Data5 (Actual Sales Sales Units)] = null, null, Sum(CrossJoin({[Time].[Year Based Months Based].[Year Based].[Current Year]}, {[Act Sales YTD Months]}), [Measures].[Data5 (Actual Sales Sales Units)]))
```

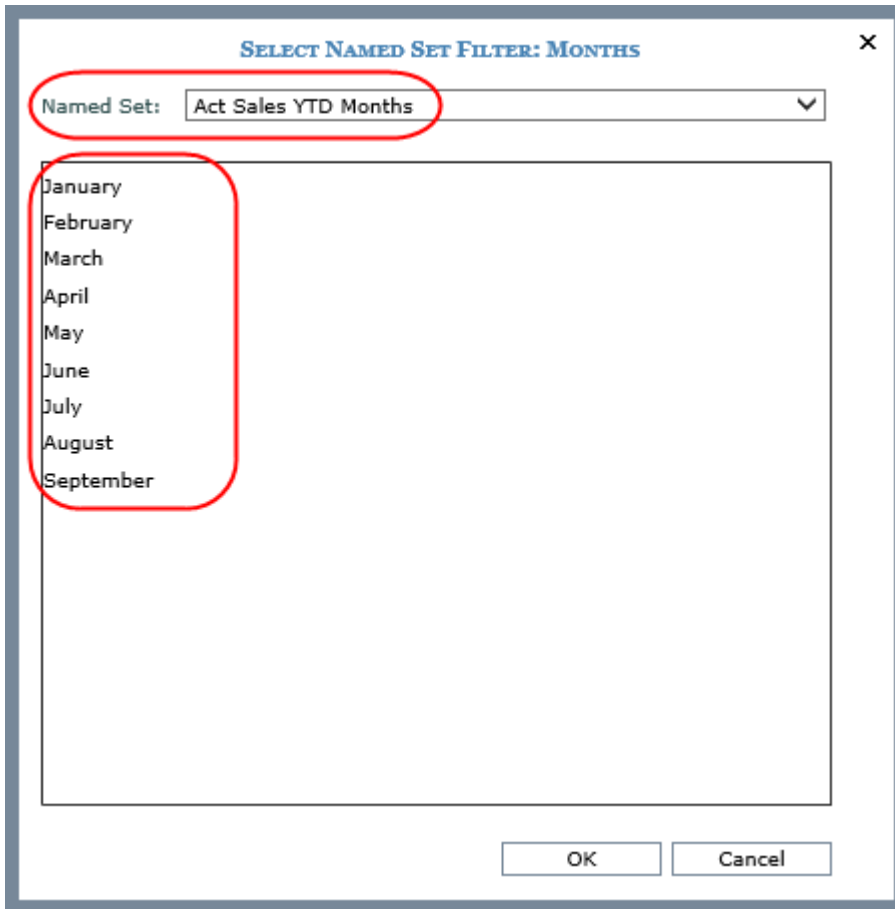
This expression uses the Act Sales YTD Months named set and the Actual Sales Sales Units measure item, which is part of the view definition but hidden from display. The expression has been optimized to check whether or not sales units data exists. The expression will be executed only for cases where there is data. Running the expression without this check could be time consuming.



When building such expressions, you can enter the name of the relevant named set directly into the Expression window. Or, navigate to the appropriate level in the window and click its Members sub-folder to access the Select Filter Method window. For this measure item's expression, the Members sub-folder of the Months level was clicked to access the Select Filter Method window. Named Set was selected, and OK was clicked.



The Act Sales YTD Months named set was selected since the measure item in the expression is Actual Sales Sales Units.



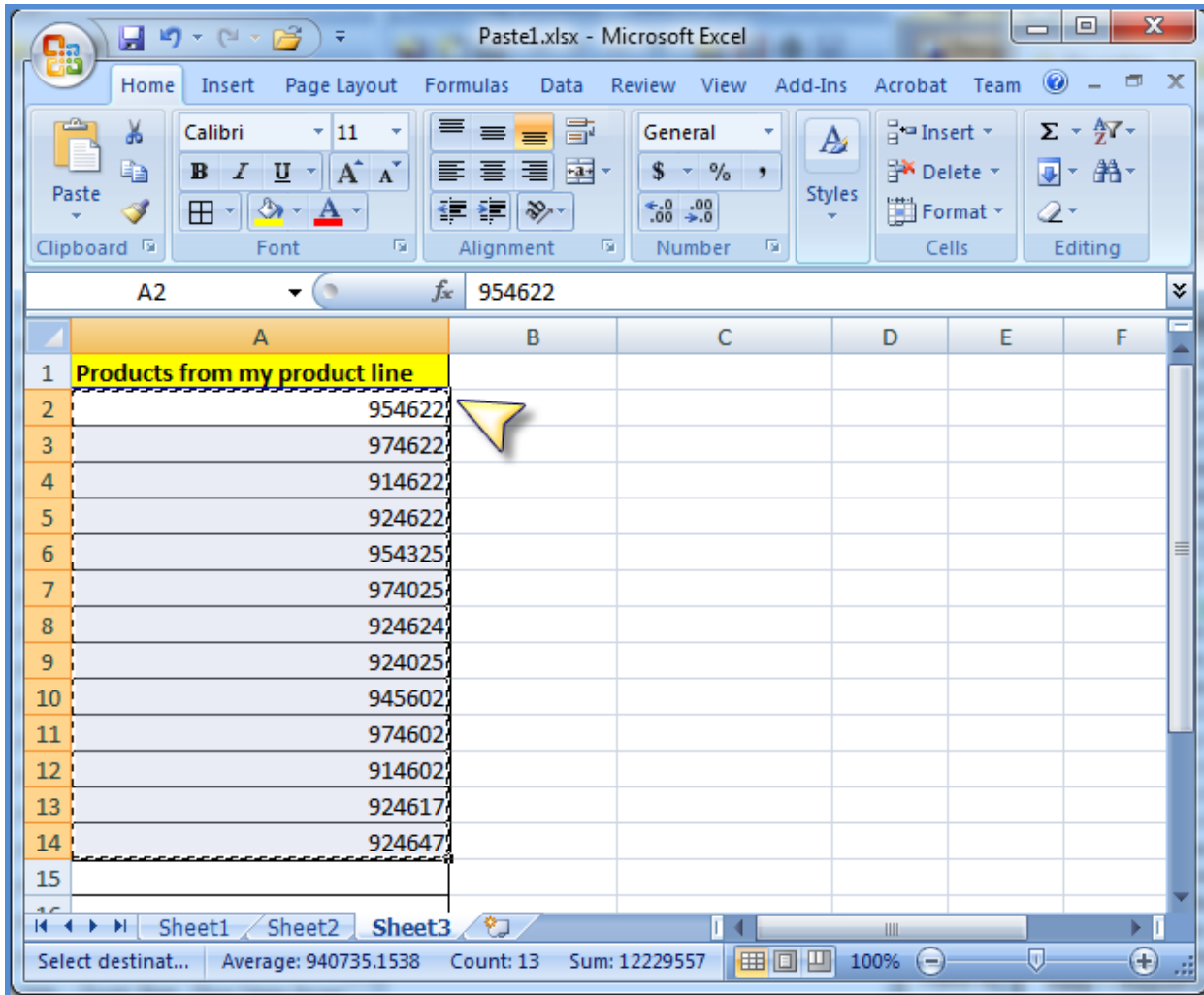
## Potential Sources of Data for use with Pasting Members

Paste Members functionality lets you copy a list of members into Stratum.Viewer, validate the list, and then add valid members to the member list filter or user list definition with which you are working. You can copy members from sources such as:

- [A column](#) in a Microsoft Excel spreadsheet.
- [A list of members separated by paragraph returns](#) in a Microsoft Word document.
- [A comma-delimited list of members](#), such as from an e-mail or text file. You can remove the commas before the paste via Excel as shown in the last example that follows.

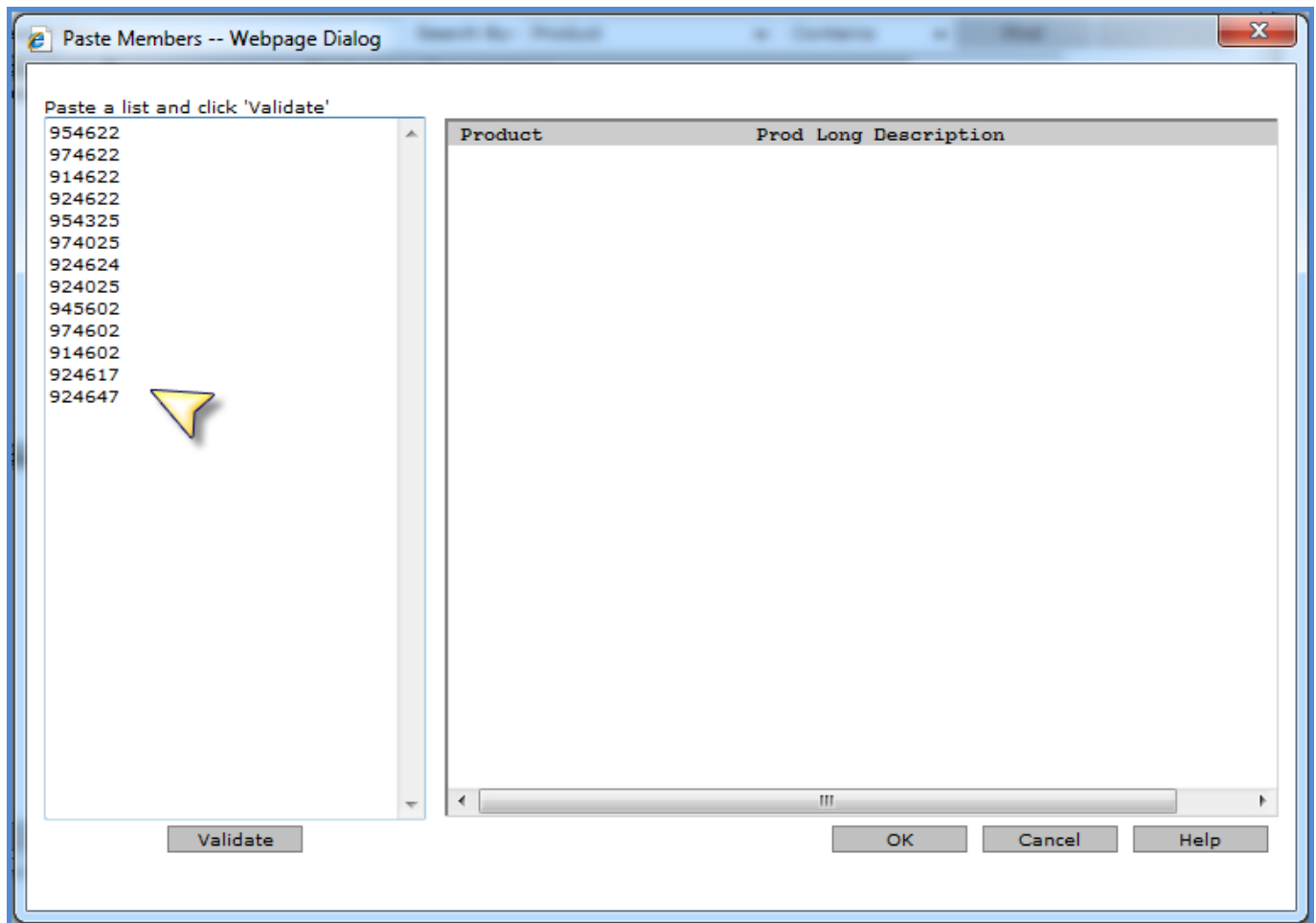
## Excel Example

Here is an example of pasting members while working with the Product level. The Advanced Select Members window had been accessed for that level and then Paste was selected from the More menu. Next, this list of values for Product members was copied from an Excel spreadsheet column.

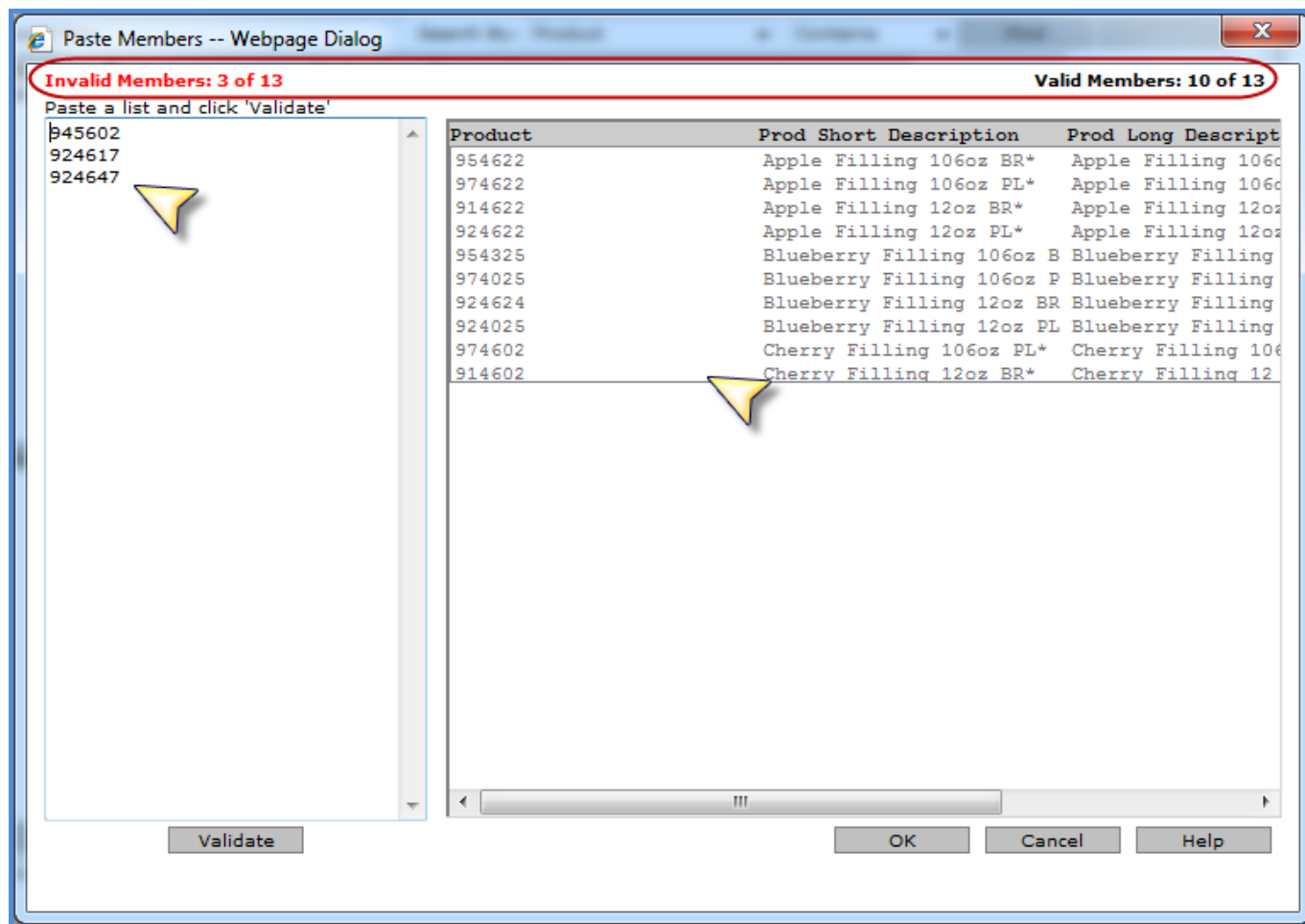




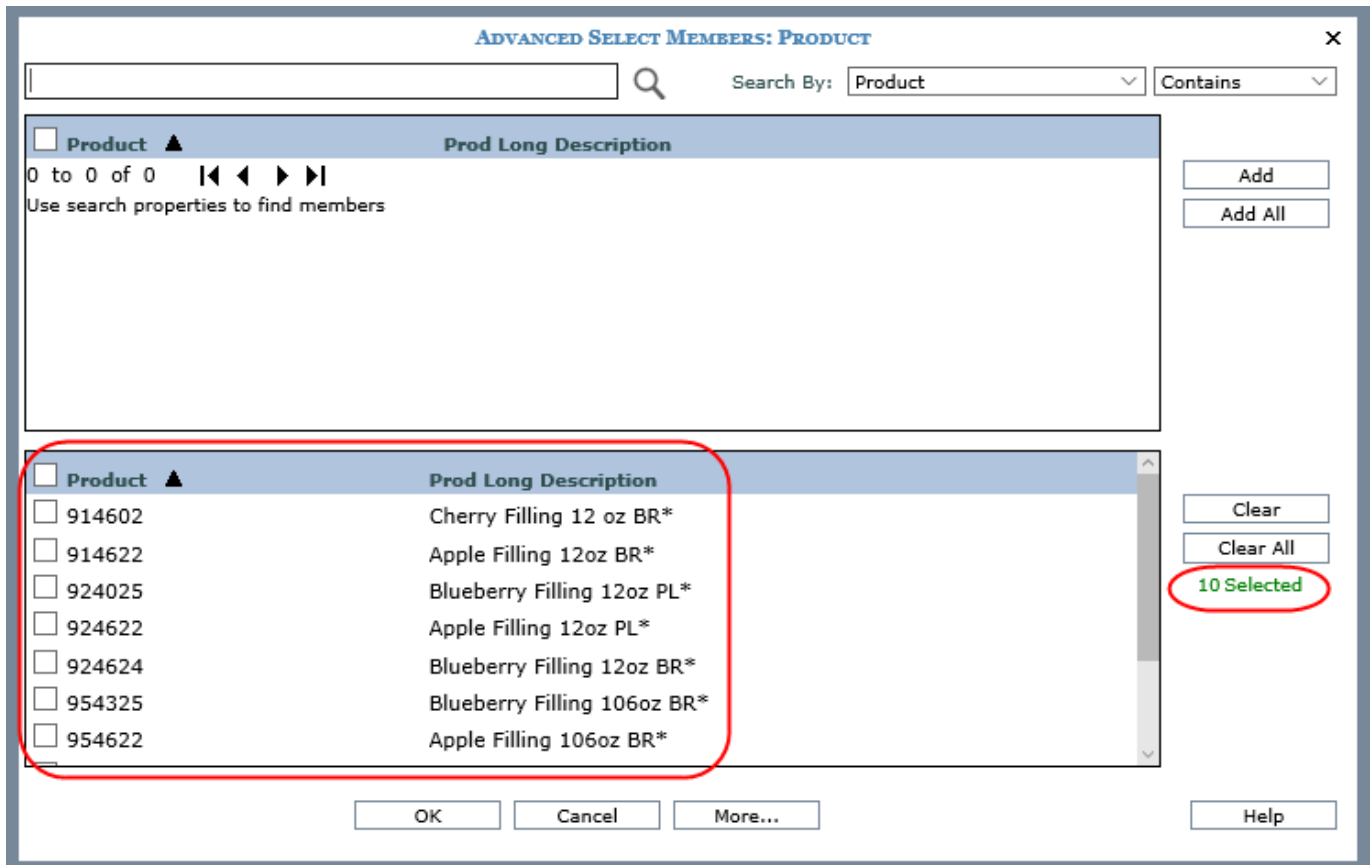
The copied text was pasted into the Paste Members window.



The Validate button was clicked. Valid members were moved to the right side of the window. Invalid members remained in the left side of the window.

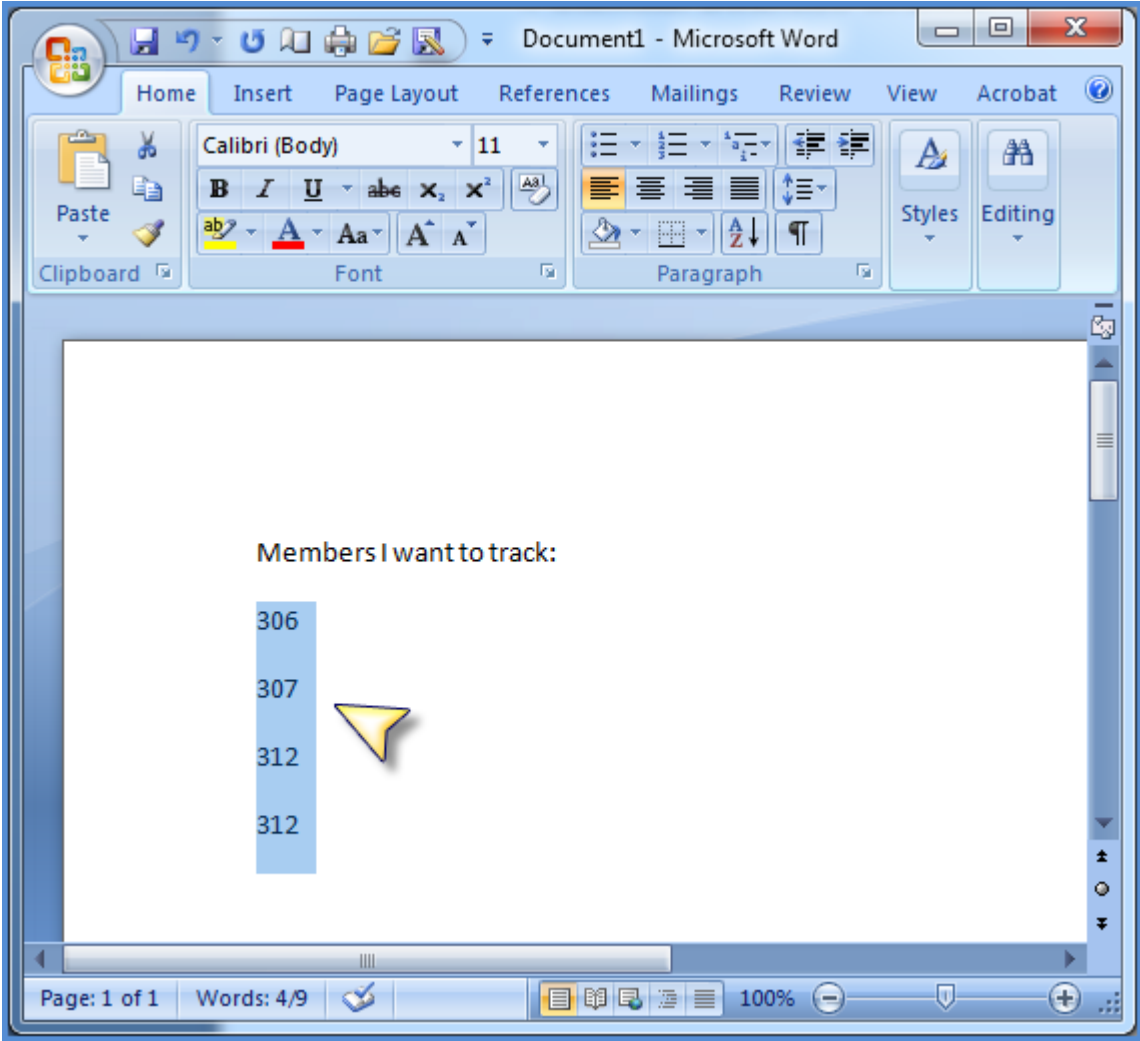


The user could have potentially edited the invalid information to correct it by typing in the left side of the window. Or, the user could have pasted or typed additional new members then performed another validate. Instead, the OK button was clicked to return the valid members to the Advanced Select Members window.

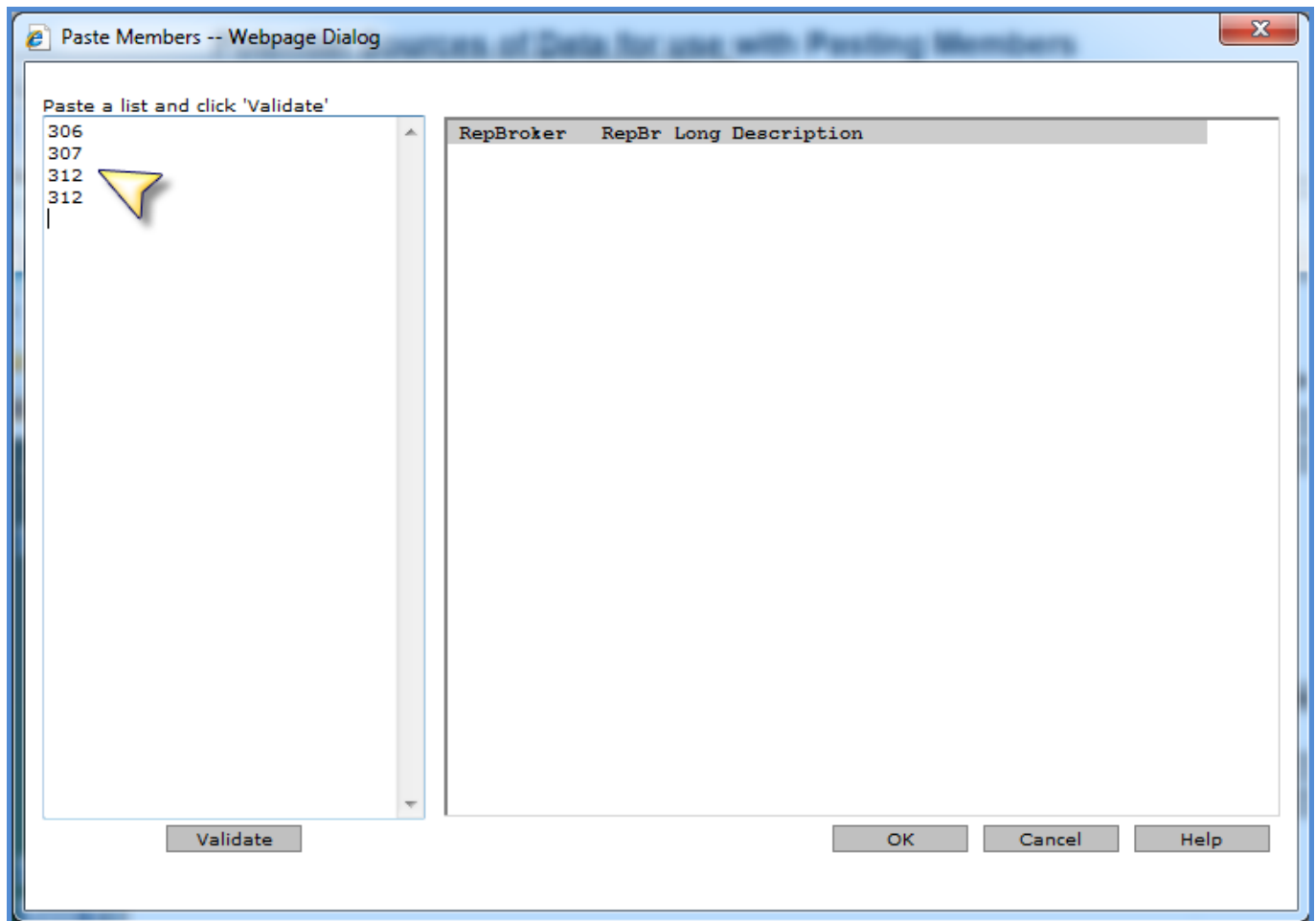


**Word Example**

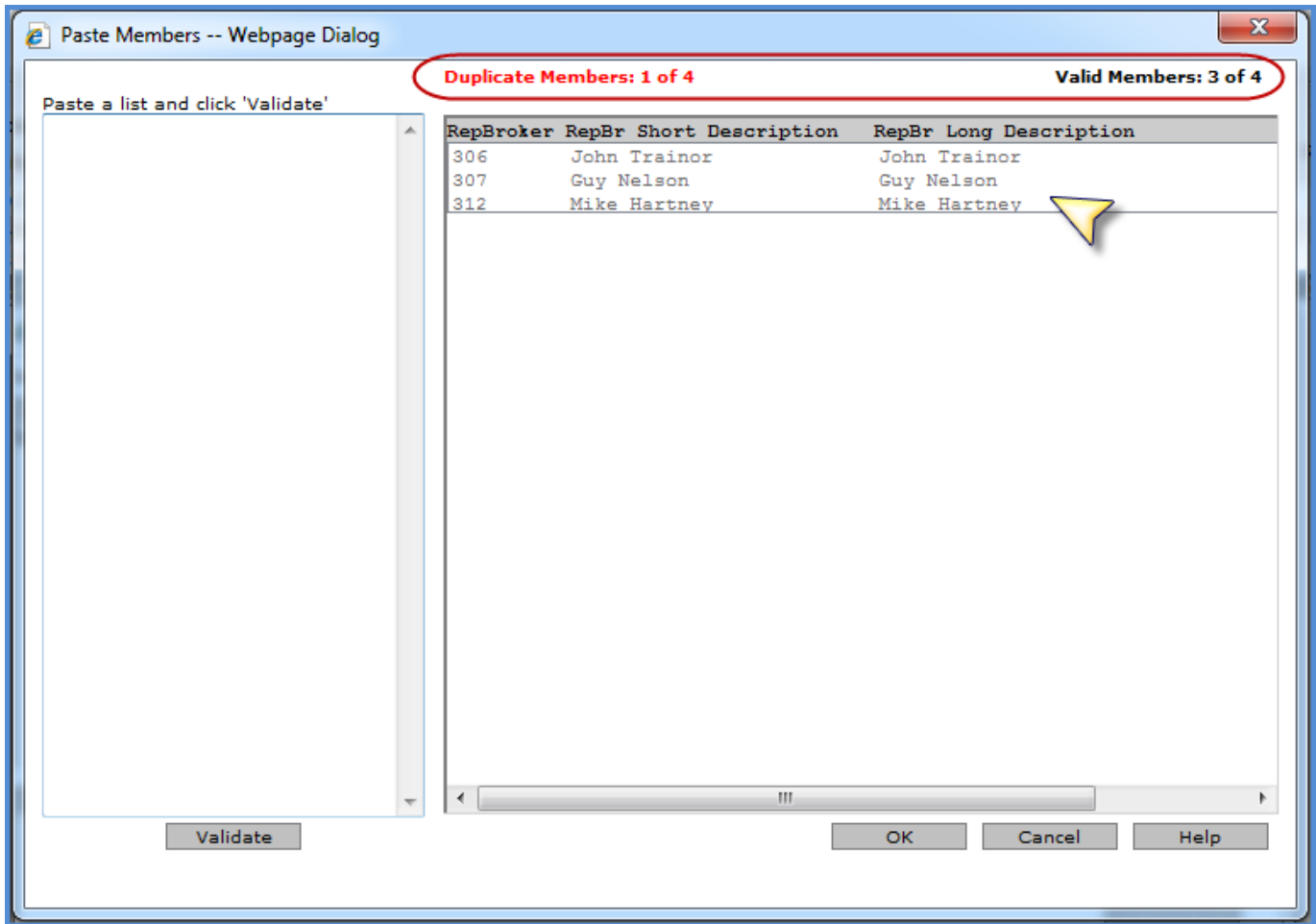
Similar pasting can be done from Word. Here is an example of RepBroker members in a Word document.



The text was copied from Word then pasted into the Paste Members window.

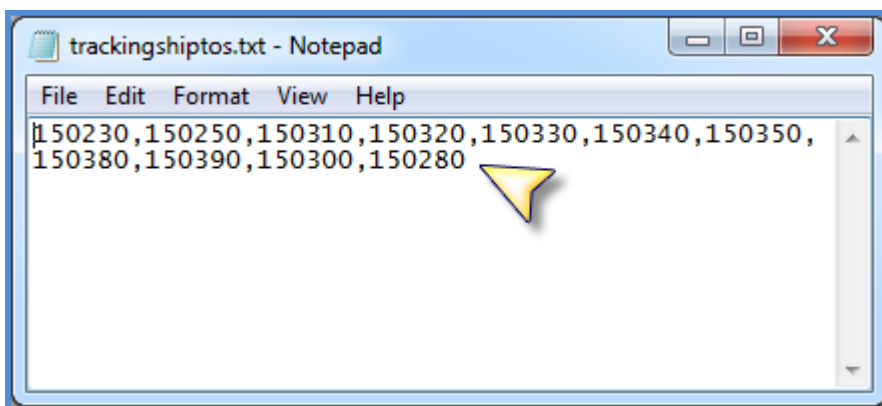


Here is the window after the Validate button was clicked. The member 312 appeared twice in the pasted text, so it was considered a duplicate member and only counted once in the count of valid members.

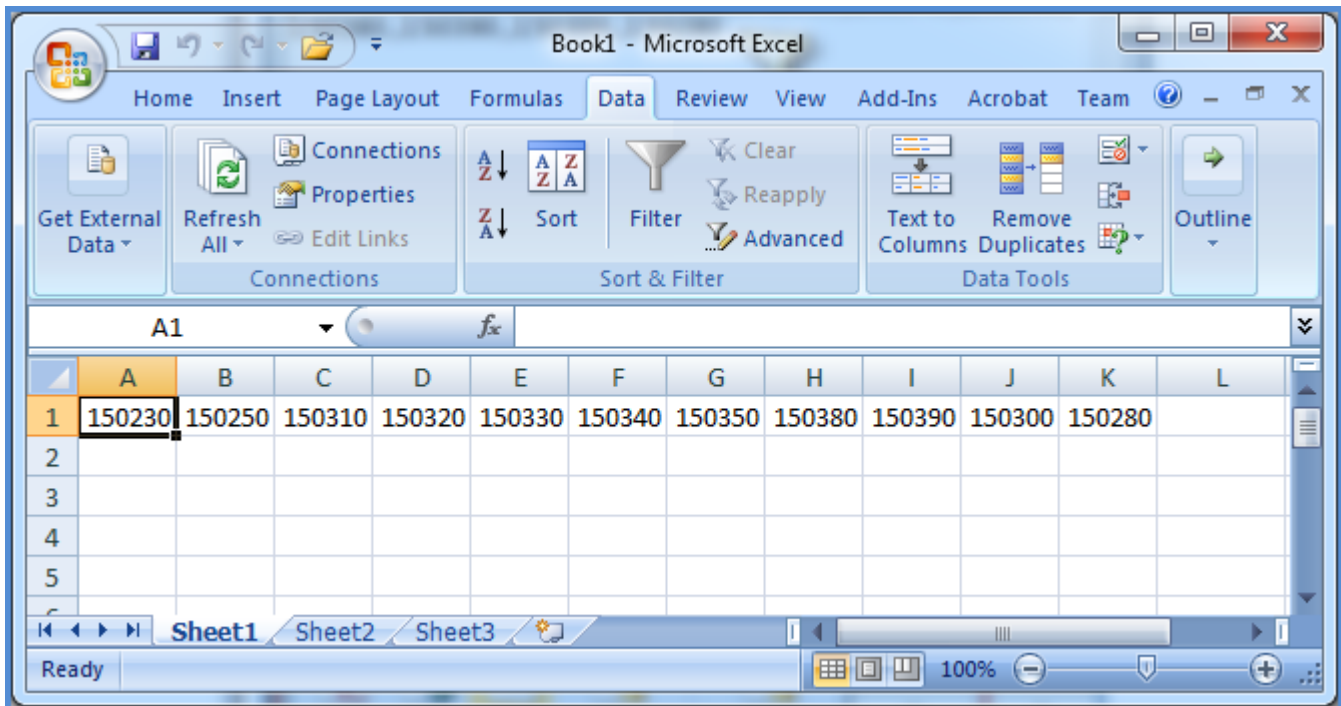
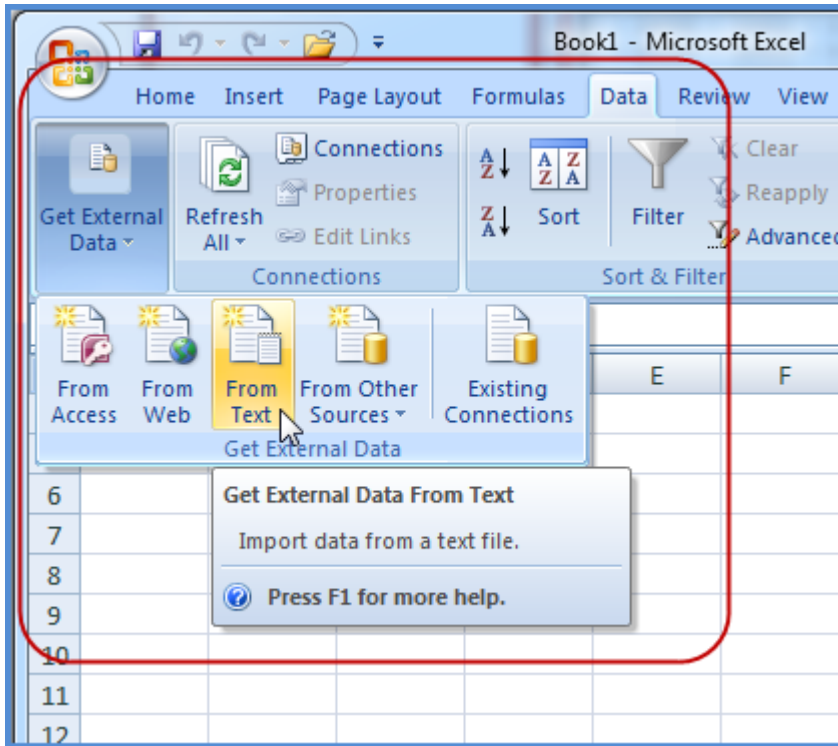


### Text File Example

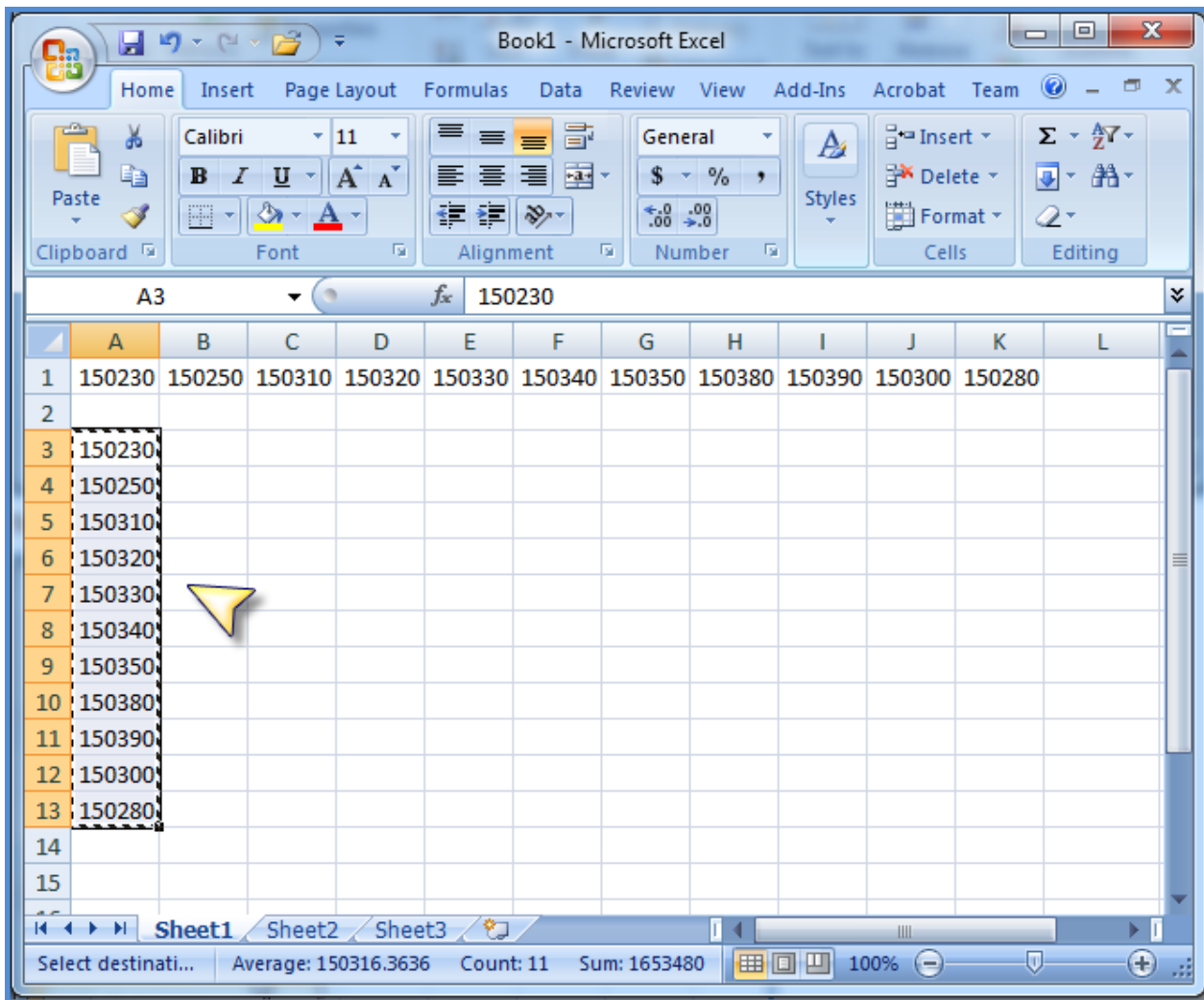
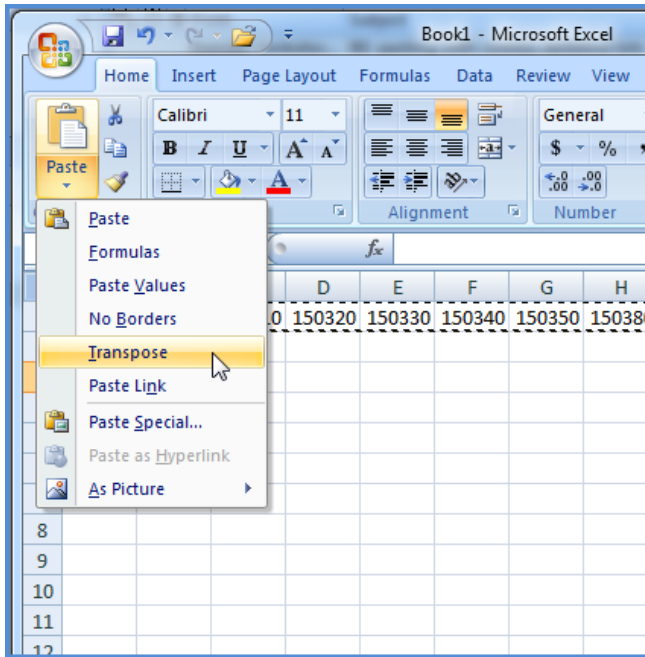
Here is a list of values for Customer Sold-To members in a text file.



The text was imported into Excel to remove the commas.

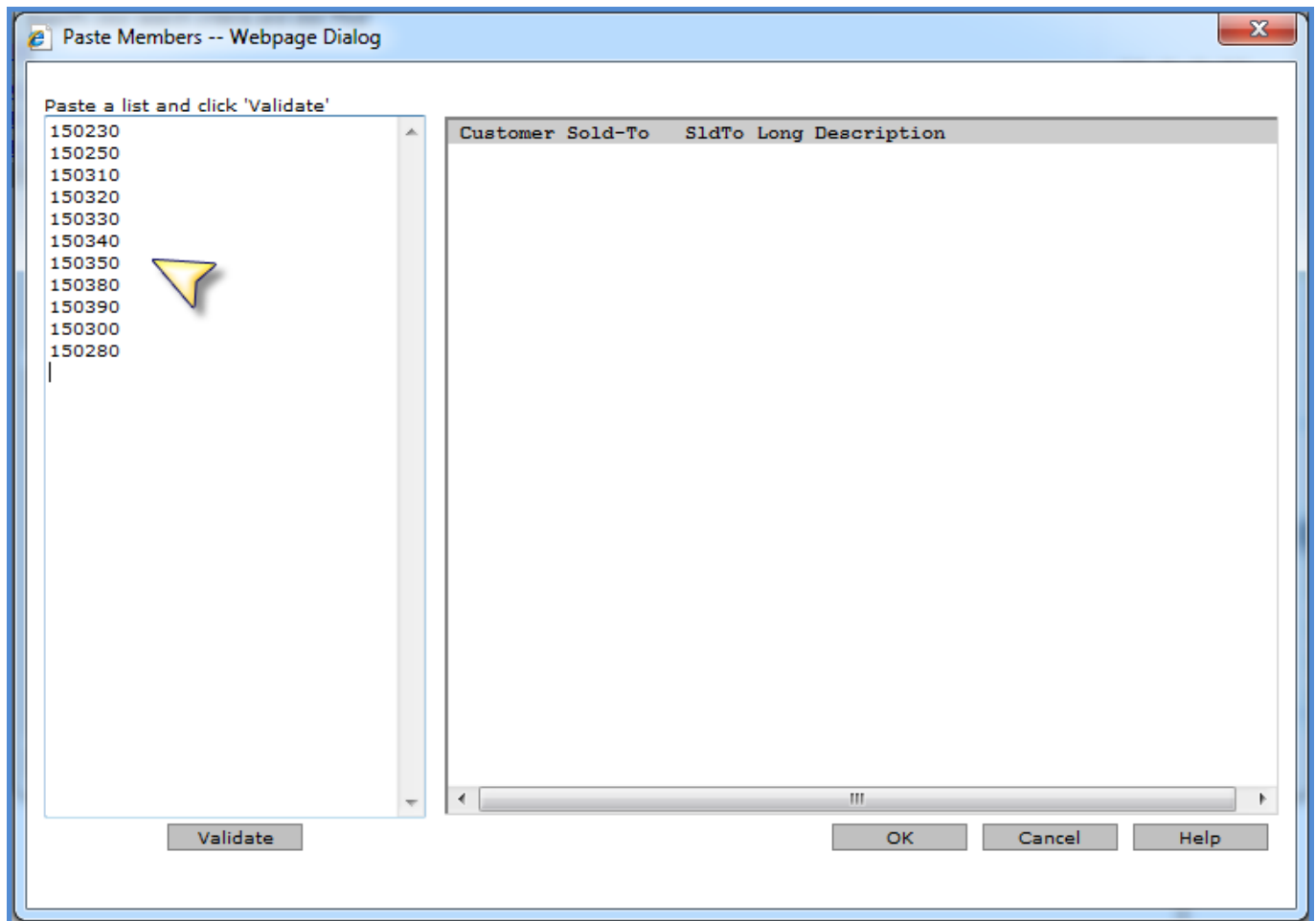


Then copied and pasted via a transpose to place the text into a single column.

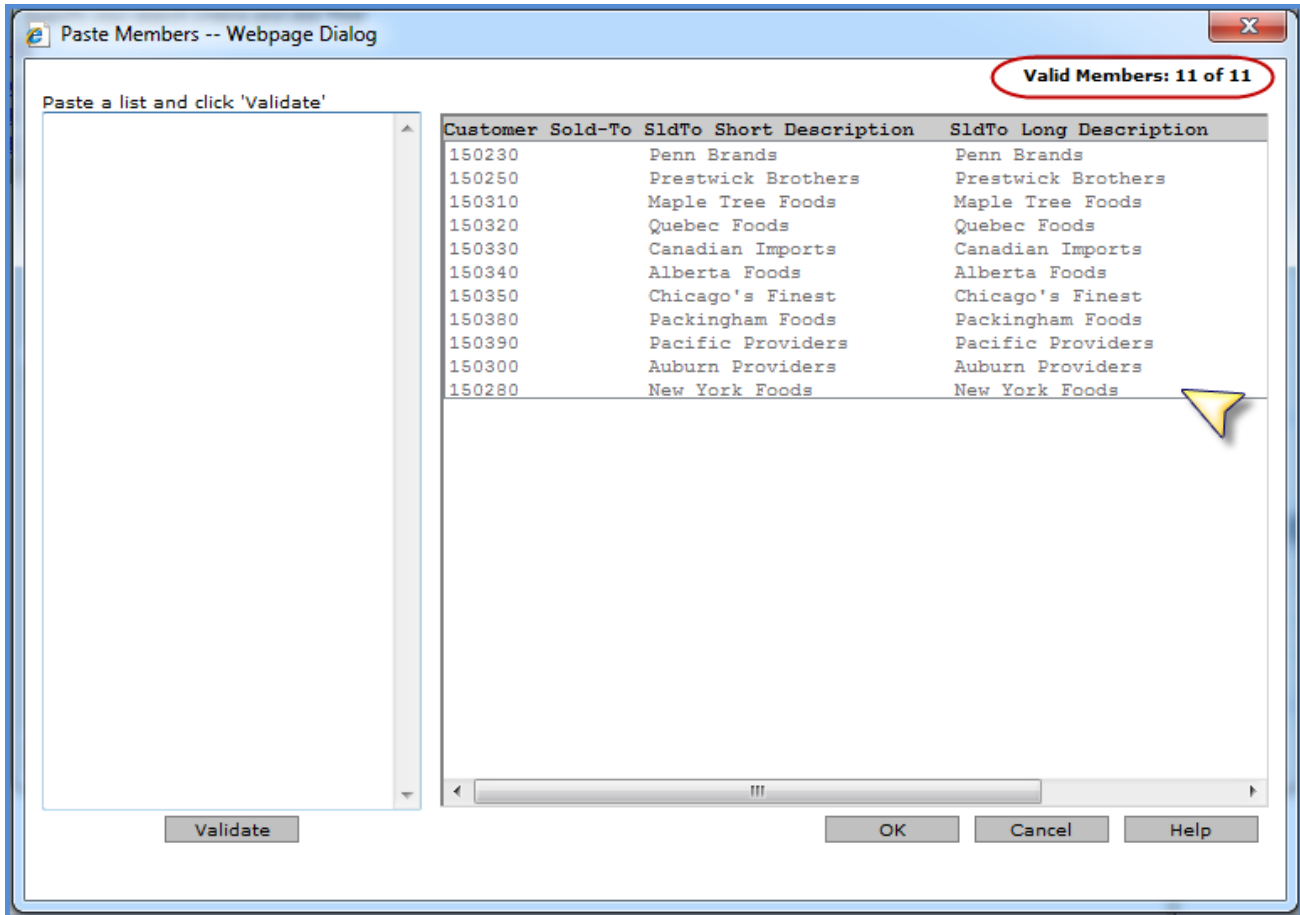




Then the text was copied from that column into the Paste Members window.



Here is the window after the Validate button was clicked. All members were valid and there were no duplicates.



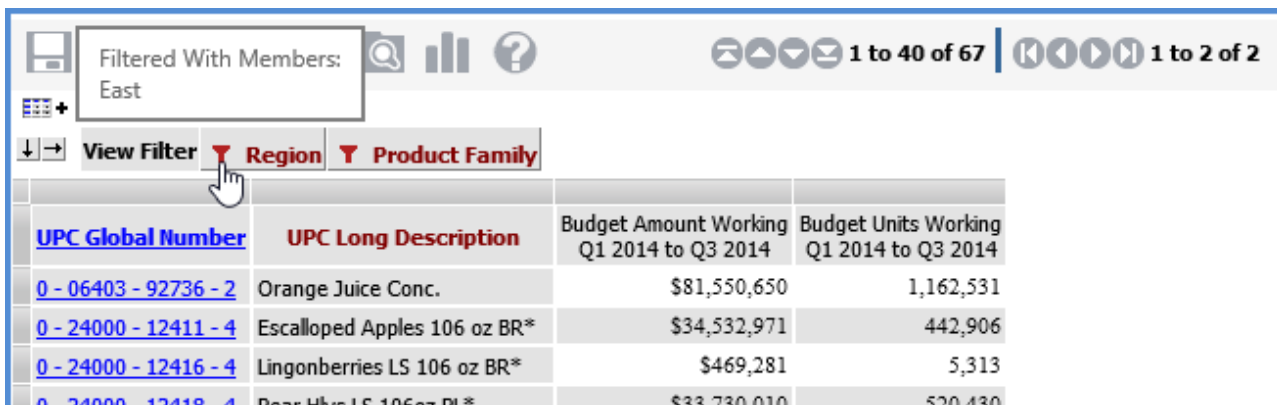
## Recommendations for View Filters

Here are some behaviors and recommendations to consider when setting up view filters in your views.

- [Multiple Levels in View Filters](#)
- [Calculated Measure Items and View Filters](#)

### Multiple Levels in View Filters

Levels in a View Filter [need a level filter defined](#) for them to have a filtering impact on a view. This is true whether there is a single level or multiple levels in the View Filter section. The following view has two levels in the View Filter. Region is filtered by a member list.



Product Family is filtered by a user list.

Filtered With User List: Product Family 60s

View Filter **Region** **Product Family**

UPC Global Number	UPC Long Description	Budget Amount Working Q1 2014 to Q3 2014	Budget Units Working Q1 2014 to Q3 2014
<a href="#">0 - 06403 - 92736 - 2</a>	Orange Juice Conc.	\$81,550,650	1,162,531
<a href="#">0 - 24000 - 12411 - 4</a>	Escalloped Apples 106 oz BR*	\$34,532,971	442,906
<a href="#">0 - 24000 - 12416 - 4</a>	Lingonberries LS 106 oz BR*	\$469,281	5,313
<a href="#">0 - 24000 - 12418 - 4</a>	Pear Hlvs LS 106oz PL*	\$33,730,010	520,430
<a href="#">0 - 24000 - 12419 - 4</a>	Pear Hlvs LS 106 oz BR*	\$11,305,509	144,914
<a href="#">0 - 24000 - 12422 - 4</a>	Apple Filling 106oz BR*	\$22,163,347	294,205
<a href="#">0 - 24000 - 12429 - 4</a>	Apple Filling 12oz PL*	\$28,872,651	810,503
<a href="#">0 - 24000 - 12430 - 4</a>	Applesauce 106oz BR*	\$25,244,052	327,925
<a href="#">0 - 24000 - 12431 - 4</a>	Applesauce 106oz PL*	\$101,809,018	1,622,014
<a href="#">0 - 24000 - 12432 - 4</a>	Blackberries 106oz BR*	\$9,353,277	106,127
<a href="#">0 - 24000 - 12438 - 4</a>	Sw Cherries Pittd 106oz BR*	\$23,900,987	243,269
<a href="#">0 - 24000 - 12440 - 4</a>	Cherry Filling 106 oz BR*	\$19,936,894	264,691
<a href="#">0 - 24000 - 12441 - 4</a>	Peach Hlvs HS 106oz PL*	\$265,508	4,083
<a href="#">0 - 24000 - 12443 - 4</a>	Peach Slcs HS 12oz PL*	\$968,593	25,087
<a href="#">0 - 24000 - 12446 - 4</a>	Prunes Pitted 106 oz BR*	\$1,568,703	20,365

The view results change if you remove the filter from either level. The following example shows the view after the member list filter was removed from Region. The view changed to show data for all Regions. The measure item values have increased, and the number of rows returned has increased from 67 to 72.

View Name: *View Filters 1*

View Filter **Region** **Product Family**

UPC Global Number	UPC Long Description	Budget Amount Working Q1 2014 to Q3 2014	Budget Units Working Q1 2014 to Q3 2014
<a href="#">0 - 06403 - 92736 - 2</a>	Orange Juice Conc.	\$107,866,368	1,540,531
<a href="#">0 - 24000 - 12411 - 4</a>	Escalloped Apples 106 oz BR*	\$44,870,327	575,424
<a href="#">0 - 24000 - 12416 - 4</a>	Lingonberries LS 106 oz BR*	\$469,281	5,313
<a href="#">0 - 24000 - 12418 - 4</a>	Pear Hlvs LS 106oz PL*	\$44,499,778	686,569
<a href="#">0 - 24000 - 12419 - 4</a>	Pear Hlvs LS 106 oz BR*	\$14,260,630	182,790
<a href="#">0 - 24000 - 12422 - 4</a>	Apple Filling 106oz BR*	\$27,243,730	361,620
<a href="#">0 - 24000 - 12429 - 4</a>	Apple Filling 12oz PL*	\$28,872,651	810,503
<a href="#">0 - 24000 - 12430 - 4</a>	Applesauce 106oz BR*	\$34,785,355	451,834
<a href="#">0 - 24000 - 12431 - 4</a>	Applesauce 106oz PL*	\$131,241,080	2,090,745
<a href="#">0 - 24000 - 12432 - 4</a>	Blackberries 106oz BR*	\$10,988,977	124,672
<a href="#">0 - 24000 - 12438 - 4</a>	Sw Cherries Pittd 106oz BR*	\$28,452,312	289,581
<a href="#">0 - 24000 - 12440 - 4</a>	Cherry Filling 106 oz BR*	\$19,936,894	264,691

### Calculated Measure Items and View Filters

View Filters affect regular, calculated, and distinct calculated measure items. There is a special case in which a View Filter will not affect calculated and distinct calculated measure items. That case is when a level is used in both the View Filter and the expression for the calculated or distinct calculated measure item. In that case, the View Filter will not impact the calculated or distinct calculated measure item for that level.

The next view has a calculated measure item with an expression that uses the Region Unit level. The expression is ([Region].[Region].[Region].[331],[Measures].[Data2 (Budget Units Working)]).

The screenshot shows a data table with the following columns: UPC Global Number, UPC Long Description, Budget Amount Working Q1 2014 to Q3 2014, Budget Units Working Q1 2014 to Q3 2014, and Budget Units Working Region West 331. The last column is circled in red. The table contains 18 rows of product data.

UPC Global Number	UPC Long Description	Budget Amount Working Q1 2014 to Q3 2014	Budget Units Working Q1 2014 to Q3 2014	Budget Units Working Region West 331
<a href="#">0 - 02749 - 25408 - 6</a>	Asparagus	\$116,213,555	1,545,622	423,304
<a href="#">0 - 02749 - 99231 - 6</a>	Strawberries	\$79,942,688	1,075,169	295,140
<a href="#">0 - 02749 - 99267 - 6</a>	Cherries, Bing	\$96,154,822	1,285,136	333,385
<a href="#">0 - 06403 - 92736 - 2</a>	Orange Juice Conc.	\$107,866,368	1,540,531	378,000
<a href="#">0 - 13800 - 30321 - 9</a>	Frozen Lasagna Dinner	\$156,537,087	1,608,142	371,753
<a href="#">0 - 13800 - 78934 - 9</a>	Meatloaf, Frozen	\$150,581,441	1,605,166	348,240
<a href="#">0 - 24000 - 12411 - 4</a>	Escaloped Apples 106 oz BR*	\$44,870,327	575,424	132,518
<a href="#">0 - 24000 - 12413 - 4</a>	Pnappl Slcs 12oz PL*	\$56,224,002	1,416,572	
<a href="#">0 - 24000 - 12416 - 4</a>	Lingonberries LS 106 oz BR*	\$469,281	5,313	
<a href="#">0 - 24000 - 12417 - 4</a>	Pnappl Slcs 106 oz BR*	\$4,751,053	59,372	59,372
<a href="#">0 - 24000 - 12418 - 4</a>	Pear Hlvs LS 106oz PL*	\$44,499,778	686,569	166,139
<a href="#">0 - 24000 - 12419 - 4</a>	Pear Hlvs LS 106 oz BR*	\$14,260,630	182,790	37,876
<a href="#">0 - 24000 - 12422 - 4</a>	Apple Filling 106oz BR*	\$27,243,730	361,620	67,415
<a href="#">0 - 24000 - 12429 - 4</a>	Apple Filling 12oz PL*	\$28,872,651	810,503	
<a href="#">0 - 24000 - 12430 - 4</a>	Applesauce 106oz BR*	\$34,785,355	451,834	123,909
<a href="#">0 - 24000 - 12431 - 4</a>	Applesauce 106oz PL*	\$131,241,080	2,090,745	468,731
<a href="#">0 - 24000 - 12432 - 4</a>	Blackberries 106oz BR*	\$10,988,977	124,672	18,545
<a href="#">0 - 24000 - 12433 - 4</a>	Pnappl Bites 106oz BR*	\$498,477	6,223	6,223

Then the Region level, filtered by member 330, is set up as a View Filter. The View Filter is ignored for the calculated measure item -- notice the measure item values have not changed for the calculated measure item.

Filtered With Members: East

1 to 40 of 102 | 1 to 3 of 3

View Filter Region

UPC Global Number	UPC Long Description	Budget Amount Working Q1 2014 to Q3 2014	Budget Units Working Q1 2014 to Q3 2014	Budget Units Working Region West 331
<a href="#">0 - 02749 - 25408 - 6</a>	Asparagus	\$84,703,055	1,122,318	423,304
<a href="#">0 - 02749 - 99231 - 6</a>	Strawberries	\$57,858,450	780,030	295,140
<a href="#">0 - 02749 - 99267 - 6</a>	Cherries, Bing	\$71,429,033	951,752	333,385
<a href="#">0 - 06403 - 92736 - 2</a>	Orange Juice Conc.	\$81,550,650	1,162,531	378,000
<a href="#">0 - 13800 - 30321 - 9</a>	Frozen Lasagna Dinner	\$120,571,548	1,236,389	371,753
<a href="#">0 - 13800 - 78934 - 9</a>	Meatloaf, Frozen	\$118,012,867	1,256,926	348,240
<a href="#">0 - 24000 - 12411 - 4</a>	Escalloped Apples 106 oz BR*	\$34,532,971	442,906	132,518
<a href="#">0 - 24000 - 12413 - 4</a>	Pnappl Slcs 12oz PL*	\$56,224,002	1,416,572	
<a href="#">0 - 24000 - 12416 - 4</a>	Lingonberries LS 106 oz BR*	\$469,281	5,313	
<a href="#">0 - 24000 - 12417 - 4</a>	Pnappl Slcs 106 oz BR*			59,372
<a href="#">0 - 24000 - 12418 - 4</a>	Pear Hlvs LS 106oz PL*	\$33,730,010	520,430	166,139
<a href="#">0 - 24000 - 12419 - 4</a>	Pear Hlvs LS 106 oz BR*	\$11,305,509	144,914	37,876
<a href="#">0 - 24000 - 12422 - 4</a>	Apple Filling 106oz BR*	\$22,163,347	294,205	67,415
<a href="#">0 - 24000 - 12429 - 4</a>	Apple Filling 12oz PL*	\$28,872,651	810,503	
<a href="#">0 - 24000 - 12430 - 4</a>	Applesauce 106oz BR*	\$25,244,052	327,925	123,909
<a href="#">0 - 24000 - 12431 - 4</a>	Applesauce 106oz PL*	\$101,809,018	1,622,014	468,731
<a href="#">0 - 24000 - 12432 - 4</a>	Blackberries 106oz BR*	\$9,353,277	106,127	18,545
<a href="#">0 - 24000 - 12433 - 4</a>	Pnappl Bites 106oz BR*			6,223

## Treatment of Time-Related Levels by the Filters Window


Time hierarchies in Stratum.Viewer can be multiple-level hierarchies or single level hierarchies. An example of a multiple-level hierarchy is Year Months with its Year and Months levels. An example of a single level hierarchy is the Months hierarchy with its Months level.

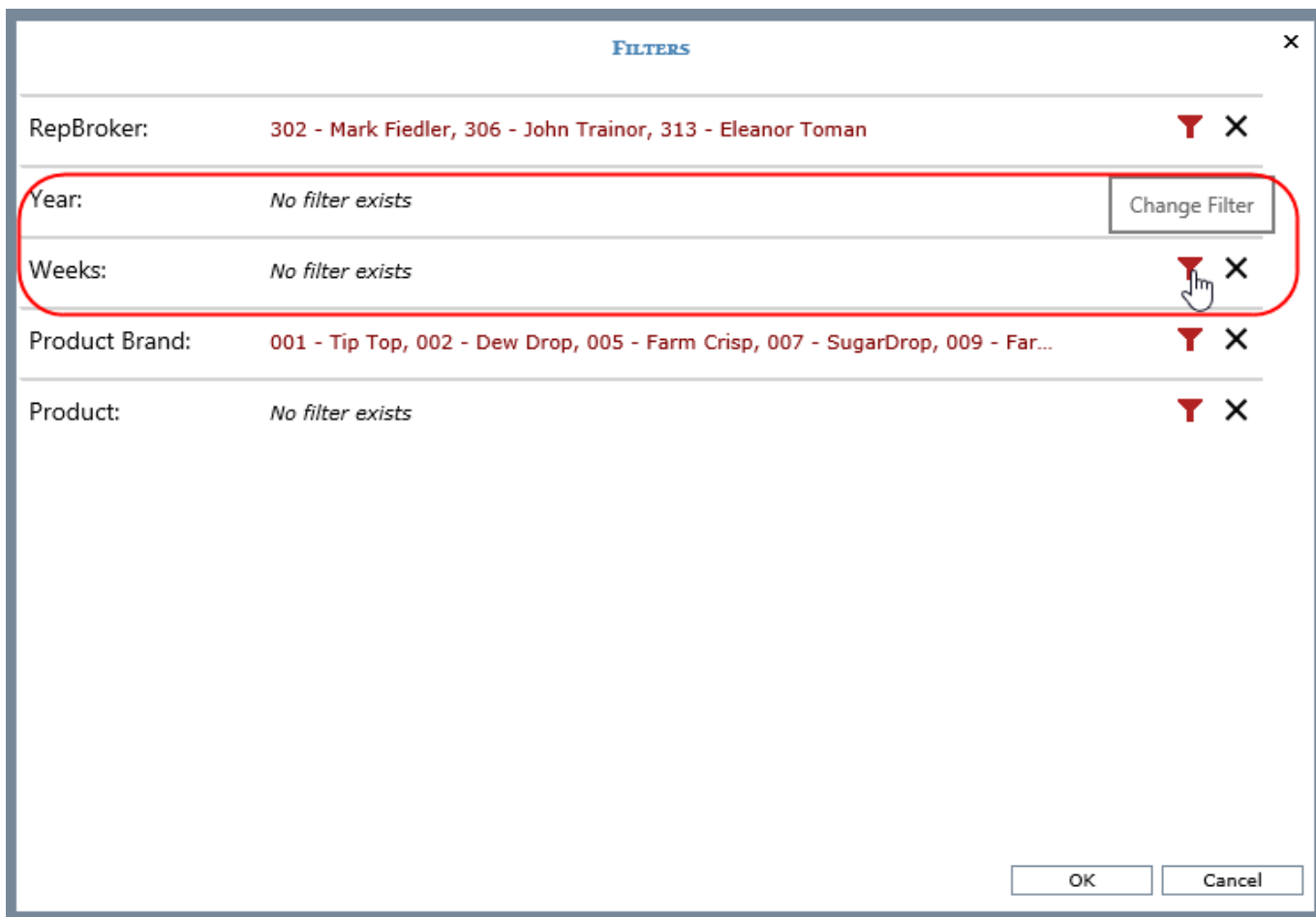
The following example shows how the Filters window treats second levels of multiple-level hierarchies in cases when the second level is not yet drilled to in a view and you filter the level from the window. Stratum.Viewer will drill to that level and apply your filter once you have exited the Filters window.

This view has the Year Weeks hierarchy on columns. The Year level is visible. The Weeks level is also defined to be available in the view (Visible property is set to Yes), but that level hasn't been drilled to yet.

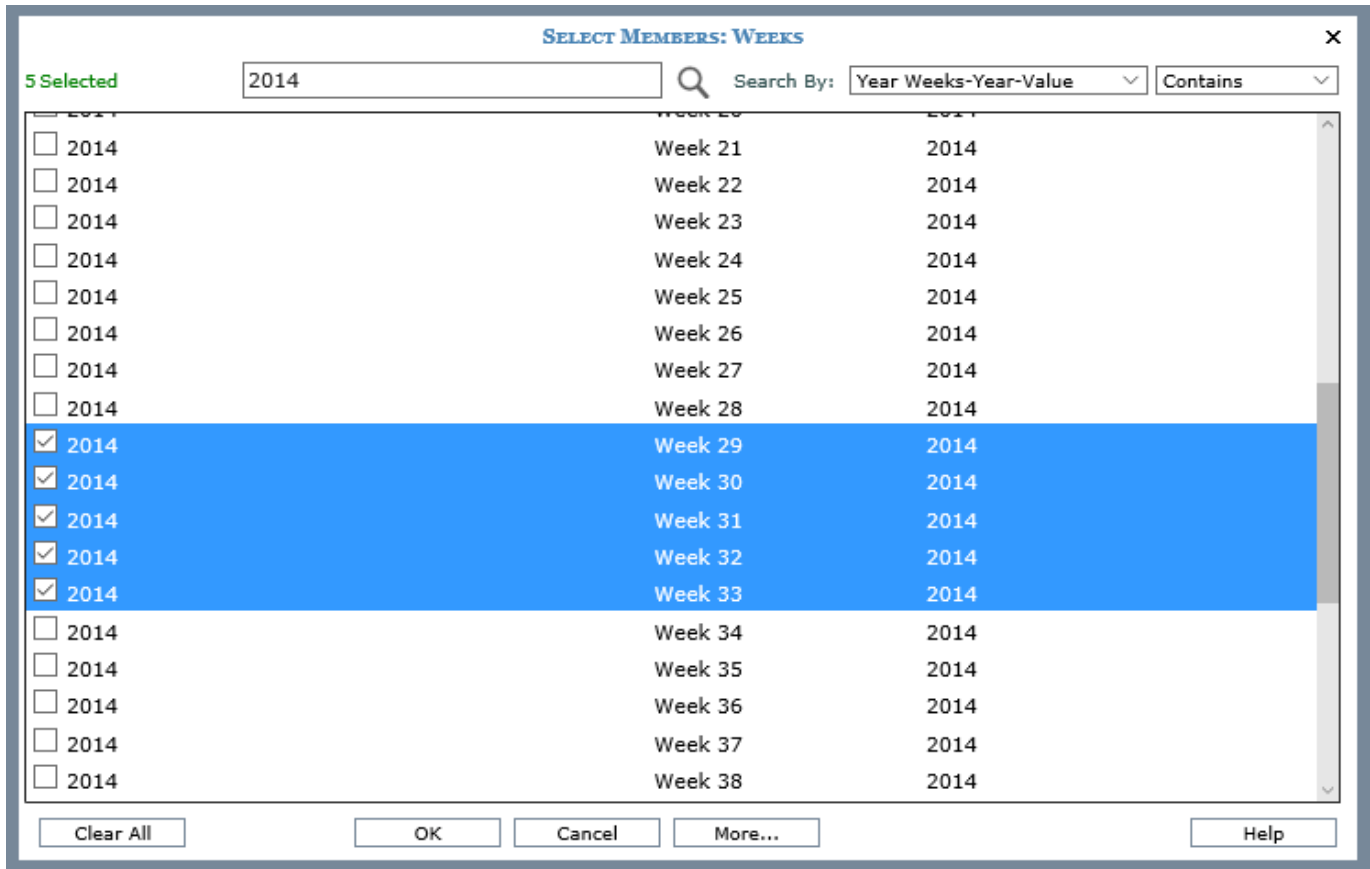
The screenshot displays the Stratum.Viewer interface. The main data table is titled "Trending Weekly Sales Data" and is filtered by "RepBroker". The table has columns for "Year" (2012, 2013, 2014) and "Actual Sales Sales Units". The "Year" column is highlighted with a red circle. The "View Explorer" pane on the right shows a hierarchy of "Year Weeks" with "Year" and "Weeks" levels. The "Weeks" level is highlighted with a red circle. The "Properties - Weeks" pane at the bottom right shows the "Visible" property set to "Yes", which is also highlighted with a red circle.

		2014		2013		2012			
Product Brand	PBrnd Long Description	Actual Sales Sales Amount	Actual Sales Sales Units	Avg Selling Price	Actual Sales Sales Amount	Actual Sales Sales Units	Avg Selling Price	Actual Sales Sales Amount	Actual Sales Sales Units
001	Tip Top	\$31,794,008	522,892	\$60.80	\$57,741,162	787,550	\$73.32	\$31,829,230	432,692
002	Dew Drop	\$33,652,760	825,745	\$40.75	\$61,281,720	1,228,186	\$49.90	\$33,965,498	685,643
005	Farm Crisp	\$16,091,106	497,882	\$32.32	\$36,873,415	902,401	\$40.86	\$23,139,725	546,750
007	SugarDrop	\$19,432,321	312,434	\$62.20	\$37,056,249	508,834	\$72.83	\$18,573,890	254,903
009	Farm Fresh	\$231,291,934	3,880,293	\$59.61	\$450,299,984	6,328,251	\$71.16	\$242,578,902	3,408,026
011	First Choice	\$141,530,325	2,959,207	\$47.83	\$269,380,436	4,705,179	\$57.25	\$144,648,375	2,528,690
Grand Total		\$473,792,454	8,998,453	\$52.65	\$912,632,966	14,460,401	\$63.11	\$494,735,621	7,856,704

The Change Filters button  is clicked to open the Filters window. All levels that are defined as visible display in the window; there are 5 of those levels including Year and Weeks.



The filter icon for Weeks is clicked, and a few weeks are selected as filters on the level from the Select Members window.





After clicking OK in the Select Members window and then OK in the Filters window, the view is refreshed. Notice that the view is now drilled to the Weeks level that you just filtered and the level reflects your filter.

**FILTERS** ✕

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RepBroker: 302 - Mark Fiedler, 306 - John Trainor, 313 - Eleanor Toman ▼ ✕

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Year: No filter exists ▼ ✕

---

**Weeks:** Week 29, Week 30, Week 31, Week 32, Week 33 ▼ ✕

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Product Brand: 001 - Tip Top, 002 - Dew Drop, 005 - Farm Crisp, 007 - SugarDrop, 009 - Far... ▼ ✕

---

Product: No filter exists ▼ ✕

<span style="float: left;"> <span style="margin-left: 20px;">1 to 7 of 7</span> <span style="margin-left: 20px;">1 to 21 of 21</span> </span>															
<span style="font-size: small;">View Name: <span style="color: #0070c0;">Trending Weekly Sales Data</span></span>															
<span style="font-size: small;">View Filter ▼ <span style="color: #c00000;">RepBroker</span></span>															
		<span style="font-size: small;">▼ Year &gt;&gt; <span style="color: #0070c0;">2014</span></span>													
		<span style="font-size: small;">▼ Weeks &gt;&gt; <span style="border: 2px solid red; border-radius: 15px; padding: 2px;">Week 29    Week 30    Week 31    Week 32    Week 33</span></span>													
▼ Product Brand	PBrnd Long Description	Actual Sales Amount	Actual Sales Units	Avg Selling Price	Actual Sales Amount	Actual Sales Units	Avg Selling Price	Actual Sales Amount	Actual Sales Units	Avg Selling Price	Actual Sales Amount	Actual Sales Units	Avg Selling Price	Actual Sales Amount	Actual Sales Units
001	Tip Top	\$637,665	31,189	\$20.45	\$924,152	12,996	\$71.11	\$1,234,022	16,845	\$73.26	\$309,870	3,850	\$80.49	\$309,870	9,240
002	Dew Drop	\$479,672	36,893	\$13.00	\$695,177	15,372	\$45.22	\$1,499,927	30,079	\$49.87	\$811,252	14,707	\$55.16	\$804,749	35,290
005	Farm Crisp	\$190,256	16,562	\$11.49	\$275,734	6,901	\$39.96	\$696,949	17,711	\$39.35	\$436,440	10,810	\$40.37	\$421,216	25,940
007	SugarDrop	\$223,373	10,492	\$21.29	\$323,729	4,372	\$74.05	\$620,816	8,412	\$73.80	\$297,087	4,041	\$73.52	\$297,087	9,690
009	Farm Fresh	\$3,256,382	160,734	\$20.26	\$4,719,394	66,972	\$70.47	\$9,958,489	141,121	\$70.57	\$5,343,066	74,149	\$72.06	\$5,239,095	177,950
011	First Choice	\$2,172,199	132,122	\$16.44	\$3,148,114	55,051	\$57.19	\$6,474,046	113,001	\$57.29	\$3,402,817	57,950	\$58.72	\$3,325,932	139,080
<b>Grand Total</b>		\$6,959,548	387,993	\$17.94	\$10,086,301	161,664	\$62.39	\$20,484,250	327,170	\$62.61	\$10,600,532	165,506	\$64.05	\$10,397,948	397,210

## Using a View Filters vs. a Level Filter

Use a view filter when you want the filter to be in effect no matter what other levels are visible in the view. The view filter will filter the entire view regardless of the levels that have been drilled to in the view. Use a level filter when you want to filter a particular level and any levels under that level in the view drill down path. Filters on individual levels are only active when you have drilled to that level in the view.

This view has a view filter that consists of member A from the ABC Classification Code level.

Region >>		East		West	
RepBroker	Product Brand	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014
Janice Tierney	002	\$14,443,445	338,131		
	003	\$5,508,606	170,232		
	009	\$14,180,149	232,929		
	010	\$11,846,117	164,483		
	011	\$79,358,878	1,602,519		
	012	\$19,633,870	258,246		
	999	\$5,822,962	181,186		
	<b>Janice Tierney Total</b>	<b>\$150,794,027</b>	<b>2,947,727</b>		
Mark Fiedler	002	\$6,155,379	145,689	\$5,134,777	118,315
	003	\$2,932,304	86,205	\$1,378,494	44,880
	009	\$8,898,810	241,004	\$1,895,295	30,060
	010	\$5,341,178	79,800	\$3,428,554	49,743
	011	\$7,841,851	263,294	\$3,437,051	68,960
	012	\$5,572,627	69,194	\$7,136,178	94,117
	999	\$2,894,935	92,203	\$1,464,038	46,074
	<b>Mark Fiedler Total</b>	<b>\$39,637,083</b>	<b>977,388</b>	<b>\$23,874,386</b>	<b>452,149</b>
Michelle Knapp	002	\$3,345,991	75,802	\$1,344,085	34,208
	003	\$369,001	10,337	\$792,715	24,276
	009	\$491,482	7,973	\$2,366,360	38,415
	010	\$1,460,151	23,093	\$1,454,814	21,241
	011	\$1,558,559	31,191	\$2,270,675	45,125
	012	\$5,360,213	69,417	\$4,352,447	57,007
	999	\$763,771	23,922	\$667,855	20,105
	<b>Michelle Knapp Total</b>	<b>\$13,349,168</b>	<b>241,736</b>	<b>\$13,248,952</b>	<b>240,377</b>
<b>Grand Total</b>		<b>\$203,780,278</b>	<b>4,166,851</b>	<b>\$37,123,338</b>	<b>692,526</b>

Wherever you drill to in the view, you will see data relevant to member A. Here is the same view after drilling up from Product Brand to RepBroker. Notice the grand totals are the same as they were in the prior state of the view.

View Name: <i>View Filter Examples</i>				
View Filter <b>ABC Classification Code</b>				
Region >>	East		West	
RepBroker	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014
Janice Tierney	\$150,794,027	2,947,727		
Mark Fiedler	\$39,637,083	977,388	\$23,874,386	452,149
Michelle Knapp	\$13,349,168	241,736	\$13,248,952	240,377
<b>Grand Total</b>	<b>\$203,780,278</b>	<b>4,166,851</b>	<b>\$37,123,338</b>	<b>692,526</b>

Here is the same view with the ABC Classification Code level positioned on rows, still filtered for member A. The level is visible, so the filter is in effect.

View Name: <i>View Filter Examples</i>					
View Filter					
Region >>		East		West	
RepBroker	ABC Classification Code	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014
Janice Tierney	A	\$150,794,027	2,947,727		
<b>Janice Tierney Total</b>		<b>\$150,794,027</b>	<b>2,947,727</b>		
Mark Fiedler	A	\$39,637,083	977,388	\$23,874,386	452,149
<b>Mark Fiedler Total</b>		<b>\$39,637,083</b>	<b>977,388</b>	<b>\$23,874,386</b>	<b>452,149</b>
Michelle Knapp	A	\$13,349,168	241,736	\$13,248,952	240,377
<b>Michelle Knapp Total</b>		<b>\$13,349,168</b>	<b>241,736</b>	<b>\$13,248,952</b>	<b>240,377</b>
<b>Grand Total</b>		<b>\$203,780,278</b>	<b>4,166,851</b>	<b>\$37,123,338</b>	<b>692,526</b>

When you drill up in the view, the ABC Classification Code level is hidden; therefore, the ABC Classification Code filter is no longer active. Notice the grand totals are higher than what they were in the prior state of the view. That is because all measure items values for the RepBrokers are being returned versus just the values for items with an ABC Classification Code of A.

View Name: <i>View Filter Examples</i>				
View Filter				
Region >>	East		West	
RepBroker	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014	Actual Sales Amount Jan 2014 to Sep 2014	Actual Sales Units Jan 2014 to Sep 2014
Janice Tierney	\$540,557,780	10,180,005		
Mark Fiedler	\$142,534,177	3,207,275	\$75,915,384	1,485,722
Michelle Knapp	\$41,236,689	823,724	\$52,627,779	985,602
<b>Grand Total</b>	<b>\$724,328,646</b>	<b>14,211,004</b>	<b>\$128,543,163</b>	<b>2,471,324</b>

## Using Relationship and Empty Filters

An [overview](#) of relationship and empty filters is provided below. Additional information is provided about when to use them and how the filters behave depending on other characteristics of a view. See these sections:

- [Period Based Views](#)
- [All Others Data and Empty Filters](#)
- [Null vs. Non-null Values and Empty Filters](#)
- [Calculated Measure Items](#)
- [Views with Levels and Measure Items on the Same Axis](#)
- [Level Filters and Relationship Filters](#)
- [View Filters](#)

### Overview

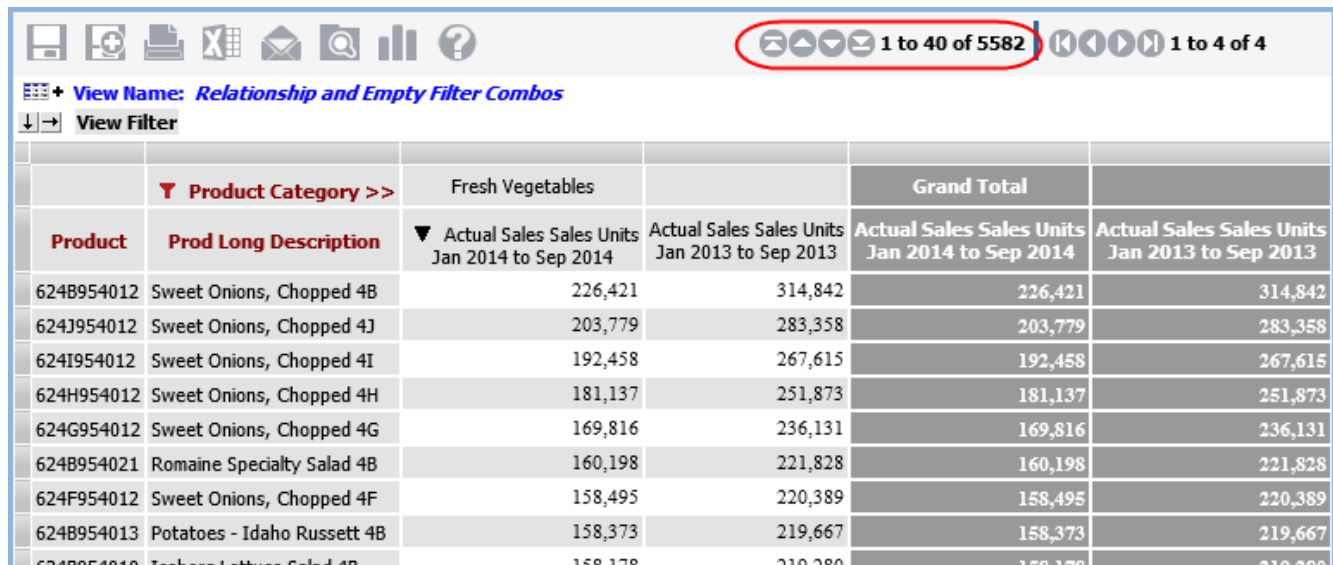
Use the Relationship and Empty Filters to filter out members of a result set where no related data exists. Related data is based on the visible measure items of the view. Filtering out those members where no data exists related to the measure items in the view produces a more focused result set.

By default, the Relationship and Empty Filter properties are enabled (Yes) for rows and columns. If you wanted to see all members on an axis regardless of related data, you would set the Relationship and Empty Filter properties to No. These properties are controlled through the [Properties windows for rows](#) and [columns](#).

For example, in a view displaying the current year YTD sales by product and where the Relationship and Empty Filters are enabled, the result set would include only product members that have sales for the current year (related data). When the Relationship and Empty Filter are disabled, the result set would include all products -- those that have sales as well as those that don't have sales.

### Relationship Filter and Empty Filter = No

Here is the example view with both properties set to No, returning all products. Results show products with and without YTD sales.



Product Category >>		Fresh Vegetables		Grand Total	
Product	Prod Long Description	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Units Jan 2013 to Sep 2013	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Units Jan 2013 to Sep 2013
624B954012	Sweet Onions, Chopped 4B	226,421	314,842	226,421	314,842
624J954012	Sweet Onions, Chopped 4J	203,779	283,358	203,779	283,358
624I954012	Sweet Onions, Chopped 4I	192,458	267,615	192,458	267,615
624H954012	Sweet Onions, Chopped 4H	181,137	251,873	181,137	251,873
624G954012	Sweet Onions, Chopped 4G	169,816	236,131	169,816	236,131
624B954021	Romaine Specialty Salad 4B	160,198	221,828	160,198	221,828
624F954012	Sweet Onions, Chopped 4F	158,495	220,389	158,495	220,389
624B954013	Potatoes - Idaho Russett 4B	158,373	219,667	158,373	219,667
624B954010	Tasker Lettuce Salad 4B	158,178	219,380	158,178	219,380

### Relationship Filter = Yes and Empty Filter = No

Here is the view when just the Relationship is set to Yes. The row count has decreased because results now show only the products that have YTD sales.

View Name: Relationship and Empty Filter Combos  
View Filter

Product Category >>		Fresh Vegetables		Grand Total	
Product	Prod Long Description	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Units Jan 2013 to Sep 2013	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Units Jan 2013 to Sep 2013
624B954012	Sweet Onions, Chopped 4B	226,421	314,842	226,421	314,842
624J954012	Sweet Onions, Chopped 4J	203,779	283,358	203,779	283,358
624I954012	Sweet Onions, Chopped 4I	192,458	267,615	192,458	267,615
624H954012	Sweet Onions, Chopped 4H	181,137	251,873	181,137	251,873
624G954012	Sweet Onions, Chopped 4G	169,816	236,131	169,816	236,131
624B954021	Romaine Specialty Salad 4B	160,198	221,828	160,198	221,828
624F954012	Sweet Onions, Chopped 4F	158,495	220,389	158,495	220,389
624B954013	Potatoes - Idaho Russett 4B	158,373	219,667	158,373	219,667
624B954010	Iceberg Lettuce Salad 4B	158,178	219,280	158,178	219,280
624E954012	Sweet Onions, Chopped 4E	147,174	204,647	147,174	204,647

### Relationship Filter and Empty Filter = Yes

Here is the view when Empty Filter also is set to Yes. The row count is only 250 after this change because the view only returns products that have YTD sales given the level and member(s) on columns. In this case, returning only products with YTD sales for the Fresh Vegetables member of Product Category.

View Name: Relationship and Empty Filter Combos  
View Filter

Product Category >>		Fresh Vegetables		Grand Total	
Product	Prod Long Description	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Units Jan 2013 to Sep 2013	Actual Sales Sales Units Jan 2014 to Sep 2014	Actual Sales Sales Units Jan 2013 to Sep 2013
624B954012	Sweet Onions, Chopped 4B	226,421	314,842	226,421	314,842
624J954012	Sweet Onions, Chopped 4J	203,779	283,358	203,779	283,358
624I954012	Sweet Onions, Chopped 4I	192,458	267,615	192,458	267,615
624H954012	Sweet Onions, Chopped 4H	181,137	251,873	181,137	251,873
624G954012	Sweet Onions, Chopped 4G	169,816	236,131	169,816	236,131
624B954021	Romaine Specialty Salad 4B	160,198	221,828	160,198	221,828
624F954012	Sweet Onions, Chopped 4F	158,495	220,389	158,495	220,389
624B954013	Potatoes - Idaho Russett 4B	158,373	219,667	158,373	219,667
624B954010	Iceberg Lettuce Salad 4B	158,178	219,280	158,178	219,280
624E954012	Sweet Onions, Chopped 4E	147,174	204,647	147,174	204,647

**Period Based Views**

For period based views that have levels from time hierarchies visible on rows or columns, it is recommended that you set the Relationship Filter and Empty Filter properties to No for the axis where the time levels are used. This will ensure that all periods will display in the view, even those for which no data exists.

**Example 1**

Levels from the Weeks time hierarchy are on rows in this view. Both Relationship and Empty Filter are No, which means all weeks display -- even those where there is no related data. Rows for all 52 weeks display in calendar order.

View Name: *Weekly Sales with EmptyFilter*  
View Filter

Product >>	620A914004		All Others		Grand Total	
Prod Long Description	FrtCktail HS 12 oz BR* 0A					
Weeks	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units
<a href="#">Week 1</a>			\$270,847,881	4,747,679	\$270,847,881	4,747,679
<a href="#">Week 2</a>			\$262,296,006	4,675,739	\$262,296,006	4,675,739
<a href="#">Week 3</a>			\$262,573,713	4,684,978	\$262,573,713	4,684,978
<a href="#">Week 4</a>			\$264,434,998	4,716,801	\$264,434,998	4,716,801
<a href="#">Week 5</a>	\$3,851	87	\$465,723,116	8,337,493	\$465,726,967	8,337,580
<a href="#">Week 6</a>	\$3,851	87	\$228,126,968	4,129,746	\$228,130,818	4,129,833
<a href="#">Week 7</a>	\$6,595	149	\$233,485,768	4,229,869	\$233,492,364	4,230,018
<a href="#">Week 8</a>	\$3,851	87	\$232,594,744	4,204,751	\$232,598,595	4,204,838
<a href="#">Week 9</a>	\$10,796	244	\$430,329,745	7,780,639	\$430,340,541	7,780,883
<a href="#">Week 10</a>	\$3,985	91	\$223,440,646	4,057,691	\$223,444,632	4,057,781
<a href="#">Week 11</a>	\$3,985	91	\$235,359,251	4,276,195	\$235,363,236	4,276,285
<a href="#">Week 12</a>	\$3,985	91	\$239,654,553	4,358,835	\$239,658,538	4,358,926
<a href="#">Week 13</a>	\$11,070	252	\$239,618,440	4,371,923	\$239,629,510	4,372,174
<a href="#">Week 14</a>	\$3,985	91	\$400,946,905	7,264,802	\$400,950,890	7,264,893
<a href="#">Week 15</a>			\$239,073,564	4,326,664	\$239,073,564	4,326,664
<a href="#">Week 16</a>			\$257,422,344	5,615,653	\$257,422,344	5,615,653
<a href="#">Week 17</a>			\$254,074,802	4,612,384	\$254,074,802	4,612,384
<a href="#">Week 18</a>			\$475,959,021	8,605,724	\$475,959,021	8,605,724

Here is the same view with Relationship and Empty Filter set to Yes. Only the weeks that have related data display.

Product >>	620A914004		All Others			Grand Total	
Prod Long Description	FrtCktail HS 12 oz BR* 0A						
Weeks	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	Actual Sales Sales Amount	Actual Sales Sales Units	
<a href="#">Week 5</a>	\$3,851	87	\$465,723,116	8,337,493	\$465,726,967	8,337,580	
<a href="#">Week 6</a>	\$3,851	87	\$228,126,968	4,129,746	\$228,130,818	4,129,833	
<a href="#">Week 7</a>	\$6,595	149	\$233,485,768	4,229,869	\$233,492,364	4,230,018	
<a href="#">Week 8</a>	\$3,851	87	\$232,594,744	4,204,751	\$232,598,595	4,204,838	
<a href="#">Week 9</a>	\$10,796	244	\$430,329,745	7,780,639	\$430,340,541	7,780,883	
<a href="#">Week 10</a>	\$3,985	91	\$223,440,646	4,057,691	\$223,444,632	4,057,781	
<a href="#">Week 11</a>	\$3,985	91	\$235,359,251	4,276,195	\$235,363,236	4,276,285	
<a href="#">Week 12</a>	\$3,985	91	\$239,654,553	4,358,835	\$239,658,538	4,358,926	
<a href="#">Week 13</a>	\$11,070	252	\$239,618,440	4,371,923	\$239,629,510	4,372,174	
<a href="#">Week 14</a>	\$3,985	91	\$400,946,905	7,264,802	\$400,950,890	7,264,893	
<a href="#">Week 31</a>	\$1,474	34	\$666,132,486	11,923,043	\$666,133,960	11,923,077	
<a href="#">Week 32</a>	\$1,474	34	\$314,153,761	5,589,879	\$314,155,235	5,589,913	

## Example 2

Levels from the Year Months time hierarchy are on rows in this view. Here is the view where both Relationship and Empty Filter are No, which means the rows for December through October of 2014 still display even though there is no related data yet for those months (the current month of the year is September, so no data exists yet for the months after that current month).

+ View Name: <i>Period Based Rel and EmptyFilter</i>			
View Filter			
▼ Year	Months	Actual Sales Sales Amount	Actual Sales Sales Units
2014	January	\$350,714,364	6,258,847
	February	\$322,332,391	5,825,361
	March	\$361,004,874	6,553,215
	April	\$327,807,806	6,867,712
	May	\$352,020,685	7,798,802
	June	\$375,671,295	8,910,194
	July	\$391,977,666	9,613,083
	August	\$485,764,510	12,744,274
	September	\$569,861,272	12,093,515
	October		
	November		
	December		
<b>2014 Total</b>		<b>\$3,537,154,864</b>	<b>76,665,003</b>
2013	January	\$650,655,727	11,579,068
	February	\$549,211,669	9,929,320
	March	\$652,242,257	11,862,018
	April	\$645,861,506	11,733,747
	May	\$468,934,747	8,413,481

Here is the same view with Relationship and Empty Filter set to Yes.

+ View Name: <i>Period Based Rel and EmptyFilter</i>				
View Filter				
▼ Year	Months	Actual Sales Sales Amount	Actual Sales Sales Units	
2014	January	\$350,714,364	6,258,847	
	February	\$322,332,391	5,825,361	
	March	\$361,004,874	6,553,215	
	April	\$327,807,806	6,867,712	
	May	\$352,020,685	7,798,802	
	June	\$375,671,295	8,910,194	
	July	\$391,977,666	9,613,083	
	August	\$485,764,510	12,744,274	
	September	\$569,861,272	12,093,515	
	<b>2014 Total</b>		<b>\$3,537,154,864</b>	<b>76,665,003</b>
	2013	January	\$650,655,727	11,579,068
		February	\$549,211,669	9,929,320
March		\$652,242,257	11,862,018	
April		\$645,861,506	11,733,747	
May		\$468,934,747	8,413,481	



## All Others Data and Empty Filters

The Empty Filter setting has no impact on All Others rows and columns. If an All Others row or column has no data and Empty Filter is set to Yes, that empty row or column will remain in the view.

Ship-To Territory	STerr Long Description	Daily Sales Amount Jun 17 2014 to Sep 15 2014	
			Daily Sales Units Jun 17 2014 to Sep 15 2014
<a href="#">1100</a>	Southwest	\$1,083,805	21,737
<a href="#">1101</a>	South Central	\$2,429,386	55,702
<a href="#">1102</a>	Gulf Coast	\$1,446,060	31,767
<a href="#">1103</a>	Midlantic	\$1,560,213	35,775
<a href="#">1104</a>	New England	\$3,145,793	71,858
<a href="#">1105</a>	Great Lakes	\$447,905	9,307
<a href="#">1106</a>	Great Plains	\$1,570,445	35,951
<a href="#">1107</a>	Northwest	\$1,023,632	21,883
<a href="#">1108</a>	Western Provinces	\$1,169,909	27,338
<a href="#">1109</a>	Central Provinces	\$1,516,509	31,967
<a href="#">1111</a>	Eastern Atlantic Provinces	\$2,550,581	57,743
All Others			
Grand Total		\$17,944,239	401,028

**Properties - Rows**

Drilldown View	None
Repeating Values	No
Totals Default	Yes
All Others Default	Yes
Relationship Filter	Yes
Empty Filter	Yes
Axis Filter	

## Null vs. Non-null Values and Empty Filters

The Empty Filter only considers cells to be empty when they have null or no data in them. Cells with zero (0) or text are not considered empty and therefore will not be excluded from the result set.

## Calculated Measure Items

The Relationship Filter considers all visible measure items (regular and calculated) when determining which members to include in the result set. This means that each calculated measure item expression is performed for all members. In cases where the expression contains a constant or an attribute relationship, this can cause an unexpected result set. In cases where the expression is time consuming, view performance can be impacted.

When an expression contains a constant or an attribute relationship, the calculated measure item produces a non-null value for every member, this results in the Relationship Filter not excluding any members from the result set since every member has "related" data. For example, if a calculated measure item expression includes an attribute relationship, then every member will have related data. You can set up conditions in the expression for the calculated measure item to be executed only under certain conditions. An example follows.

The Extended List Price measure item in the next view is a calculated measure item which has the expression:

```
[Product].[Product].Properties("Prod Current List Price") * [Measures].[Data13 (Actual Sales Sales Units Jan 2014 to Sep 2014)]
```

The Prod Current List Price in the expression is an attribute relationship. Every product has a list price, which means every product will have an Extended List Price result and no rows will be removed from the view by the relationship filter. If the calculation is made conditional to only execute when YTD sales units exists, then the view will contain only those products that have YTD sales units.

Product	Prod Current List Price	Actual Sales Sales Units Jan 2014 to Sep 2014	Ext List Price
<a href="#">Applesauce 106oz PL* 5B</a>	65	286,688	\$18,634,709.28
<a href="#">Pnappl Slcs 12 oz BR* 5B</a>	48	261,553	\$12,554,536.11
<a href="#">Peach Slcs LS 12oz BR* 5B</a>	47	259,604	\$12,201,387.43
<a href="#">Applesauce 106oz PL* 5J</a>	65	258,019	\$16,771,238.53
<a href="#">Applesauce 106oz PL* 5I</a>	65	243,685	\$15,839,502.93
<a href="#">Applesauce 12oz PL* 5B</a>	41	243,543	\$9,985,255.10
<a href="#">Frozen Lasagna Dinner 4B</a>	109	238,731	\$26,021,686.76
<a href="#">Meatloaf, Frozen 4B</a>	107	238,676	\$25,538,319.52
<a href="#">Apples Red Delicious 4B</a>	46	237,311	\$10,916,327.65
<a href="#">Pnappl Slcs 12 oz BR* 5J</a>	48	235,398	\$11,299,082.64
<a href="#">Peach Slcs LS 12oz BR* 5J</a>	47	233,644	\$10,981,248.78
<a href="#">Applesauce 106oz PL* 5H</a>	65	229,350	\$14,907,767.44

**EXPRESSION - EXT LIST PRICE**

**View Items and Functions**

- Hierarchies
  - Product
    - Product
      - Attribute Relationships
        - Prod Long Description
        - Prod Current List Price**
      - Members
    - Product Brand
    - Product Category
    - Product ABC Class
    - Product Category Role

**Expression**

```
[Product].[Product].Properties("Prod Current List Price") *
[Measures].[Data13 (Actual Sales Sales Units Jan 2014 to
Sep 2014)]
```

Here is the expression, modified to check for YTD sales units. This optimized expression will not proceed with the expression calculation in cases where no YTD Sales Units exists

IIF([Measures].[Data13 (Actual Sales Sales Units Jan 2014 to Sep 2014)] <> Null,  
 [Product].[Product].Properties("Prod Current List Price") \* [Measures].[Data13 (Actual Sales Sales Units Jan 2014 to Sep 2014)], null)

Here is the updated view, which now has fewer rows because the relationship filter removed rows without YTD Sales units.

Product	Prod Current List Price	Actual Sales Sales Units Jan 2014 to Sep 2014	Ext List Price
<a href="#">Applesauce 106oz PL* 5B</a>	65	286,688	\$18,634,709.28
<a href="#">Pnappl Slcs 12 oz BR* 5B</a>	48	261,553	\$12,554,536.11
<a href="#">Peach Slcs LS 12oz BR* 5B</a>	47	259,604	\$12,201,387.43
<a href="#">Applesauce 106oz PL* 5J</a>	65	258,019	\$16,771,238.53
<a href="#">Applesauce 106oz PL* 5I</a>	65	243,685	\$15,839,502.93
<a href="#">Applesauce 12oz PL* 5B</a>	41	243,543	\$9,985,255.10
<a href="#">Frozen Lasagna Dinner 4B</a>	109	238,731	\$26,021,686.76
<a href="#">Meatloaf, Frozen 4B</a>	107	238,676	\$25,538,319.52
<a href="#">Apples Red Delicious 4B</a>	46	237,311	\$10,916,327.65
<a href="#">Pnappl Slcs 12 oz BR* 5J</a>	48	235,398	\$11,299,082.64
<a href="#">Peach Slcs LS 12oz BR* 5J</a>	47	233,644	\$10,981,248.78
<a href="#">Applesauce 106oz PL* 5H</a>	65	229,350	\$14,907,767.44
<a href="#">Sweet Onions, Chopped 4B</a>	62	226,421	\$14,038,123.71

The next view contains YTD calculated measure items for sales amount and units. The expressions for both measure items use named sets and therefore were optimized by making them conditional based on the existence of related data. The YTD calculations will execute only when Actual Sales Sales Amount and Actual Sales Sales Units respectively are not null. Here is the expression for the YTD Sales Amount measure item. A similar expression was used for the YTD Sales Units measure item.

`IIF([Measures].[Data1 (Actual Sales Sales Amount)] = null, null, Sum(CrossJoin([Time].[Year Based Months Based].[Year Based].[Current Year],[Act Sales YTD Months]),[Measures].[Data1 (Actual Sales Sales Amount)]))`

**View Name: RepBroker YTD Sales \$ and Units**

**View Filter**

RepBroker	YTD Sales Amount	YTD Sales Units
300	\$1,236,249,042	31,341,259
301	\$80,279,499	1,689,678
302	\$218,449,561	4,692,998
303	\$93,864,469	1,809,326
304	\$94,960,867	1,875,791
305	\$540,557,780	10,180,005
306	\$123,739,278	2,390,317
307	\$36,226,887	704,599
308	\$95,845,090	1,841,984
309	\$78,406,950	1,562,082
312	\$335,926,577	7,375,334
313	\$446,627,746	8,058,285
315	\$112,408,366	2,282,187
318	\$43,612,752	861,157
<b>Grand Total</b>	<b>\$3,537,154,864</b>	<b>76,665,003</b>

### Views with Levels and Measure Items on the Same Axis

When a view has levels and measure items on the same axis, only members that have null data for all measure items will be removed by a Relationship and Empty Filter.

## Level Filters and Relationship Filters

Relationship Filters on one axis will ignore level filters on the opposite axis when determining which members have related data. For example, this view has a filter on the Customer Class level in columns that returns class 91. Relationship Filter is enabled for rows and returns all Distribution Channels with YTD Sales Units. Once the Customer Class filter is applied, the result set may contain empty rows. In this case two distribution channels do not have any YTD Sales Units for Customer Class 91, but do have YTD Sales for another Customer Class. These empty rows could be removed by enabling the Empty Filter.

The screenshot shows a software interface with a table. The table has four columns: 'Customer Class >>', 'C Clas Long Description', 'Actual Sales Sales Units Jan 2014 to Sep 2014', and 'Actual Sales Sales Units Jan 2014 to Sep 2014'. The rows are: 'Customer Class >>' (91), 'C Clas Long Description' (CAN Customer), 'Distribution Channel' (DIR, INB, INW), and 'Grand Total'. The rows for DIR and INB are circled in red, indicating they are empty for the selected Customer Class.

	Customer Class >>	91	Grand Total
	C Clas Long Description	CAN Customer	
<b>Distribution Channel</b>	<b>DsChn Long Description</b>	<b>Actual Sales Sales Units Jan 2014 to Sep 2014</b>	<b>Actual Sales Sales Units Jan 2014 to Sep 2014</b>
<a href="#">DIR</a>	Direct		
<a href="#">INB</a>	Indirect - Broker		
<a href="#">INW</a>	Indirect - Wholesaler	3,251,475	3,251,475
<b>Grand Total</b>		<b>3,251,475</b>	<b>3,251,475</b>

Here is the view after Empty Filter has been enabled on rows.

The screenshot shows the same software interface as above, but with the Empty Filter enabled. The rows for DIR and INB have been removed from the table.

	Customer Class >>	91	Grand Total
	C Clas Long Description	CAN Customer	
<b>Distribution Channel</b>	<b>DsChn Long Description</b>	<b>Actual Sales Sales Units Jan 2014 to Sep 2014</b>	<b>Actual Sales Sales Units Jan 2014 to Sep 2014</b>
<a href="#">INW</a>	Indirect - Wholesaler	3,251,475	3,251,475
<b>Grand Total</b>		<b>3,251,475</b>	<b>3,251,475</b>

## View Filters

The sequence in which filters are executed in relation to View Filters is View Filter first, then Relationship Filter, and then Empty Filter. Only data that meets the View Filter criteria will be considered by the Relationship Filter.

## FAQ's

### Can Measure Items with Conditional Formatting including Images and Indicators be included in a Filter?

Yes. When a measure item with an associated image or indicator is filtered, only the value of the measure item is used in the filter. The image and indicator are ignored by the filter.

## What Does “Not Mapped” Mean in Views?

A row or column of “Not Mapped” data in a view means that measure item data exists for a period of time that has not been defined in Stratum Administration. Such measure item data is assigned to a “Not Mapped” member so you can still see the data in the view.

<b>Year Based</b>	<b>Year Based Quarters Based-Year Based-Abs Year</b>	<b>Quarters Based</b>	Daily Sales Daily Sales Amount	Daily Sales Daily Sales Units
<a href="#">Last Year</a>	2015	<a href="#">2 Quarters Ago</a>	\$1,557,900	115,200
		<a href="#">Previous Qtr</a>	\$7,146,190	192,697
		<a href="#">Current Quarter</a>	\$509,721,493	538,659
		<b>Not Mapped</b>	\$689,881	102,312
		<b>Last Year Total</b>	<b>\$519,115,465</b>	<b>948,868</b>
<a href="#">Current Year</a>	2016	<a href="#">2 Quarters Ago</a>	\$2,129,130	157,440
		<a href="#">Previous Qtr</a>	\$9,335,956	196,929
		<a href="#">Current Quarter</a>		
		<b>Not Mapped</b>	\$1,589,775	280,256
		<b>Current Year Total</b>	<b>\$13,054,861</b>	<b>634,625</b>
<b>Grand Total</b>			<b>\$532,170,326</b>	<b>1,583,494</b>

The view in the prior example has levels from Year Based Quarters on rows. Notice that each year has a “Not Mapped” row of Daily Sales data. This means that there are insufficient based quarter time periods defined in Stratum.Administration. In this example, an additional based quarter definition for a 3 Quarters Ago period needs to be defined in Stratum.Administration. After that, the previously unmapped data will be assigned to the 3 Quarters Ago period and display in the view for that member of Year Based. Here is the view after the period has been defined.

<b>Year Based</b>	<b>Year Based Quarters Based-Year Based-Abs Year</b>	<b>Quarters Based</b>	Daily Sales Daily Sales Amount	Daily Sales Daily Sales Units
<a href="#">Last Year</a>	2015	<a href="#">3 Quarters Ago</a>	\$689,881	102,312
		<a href="#">2 Quarters Ago</a>	\$1,557,900	115,200
		<a href="#">Previous Qtr</a>	\$7,146,190	192,697
		<a href="#">Current Quarter</a>	\$509,721,493	538,659
		<b>Last Year Total</b>	<b>\$519,115,465</b>	<b>948,868</b>
<a href="#">Current Year</a>	2016	<a href="#">3 Quarters Ago</a>	\$1,589,775	280,256
		<a href="#">2 Quarters Ago</a>	\$2,129,130	157,440
		<a href="#">Previous Qtr</a>	\$9,335,956	196,929
		<a href="#">Current Quarter</a>		
		<b>Current Year Total</b>	<b>\$13,054,861</b>	<b>634,625</b>
<b>Grand Total</b>			<b>\$532,170,326</b>	<b>1,583,494</b>

## What Does “Not Valid” Mean in Views and Filter Windows?

A row or column of “Not Valid” data in a view means that a time level in the view does not apply to some of the measure items in the view. Such measure items have their data assigned to the “Not Valid” member so you can still see their data in the view.

The screenshot shows a software interface with a data table and a 'View Explorer' pane. The table has the following data:

Year	Daily Sales Daily Sales Amount	Actual Sales Sales Amount	Budget Budget Amount Frozen	Forecast Baseline Forecast
2006				
2007				
2008				
2009				
2010				
2011				
2012	\$996,282,287			
2013	\$1,081,490,510			
2014	\$1,351,863,138			
2015				
2016				
Not Valid		\$14,389,522,497	\$15,649,612,359	1,671,369,633
Grand Total	\$3,429,635,936	\$14,389,522,497	\$15,649,612,359	1,671,369,633

The 'View Explorer' pane on the right shows a tree structure with 'Year Days' selected under 'Rows'. The 'Year Days' node is expanded, showing 'Year' and 'Days' sub-nodes.

The view in the prior example has levels from Year Days on rows. The levels are applicable to the Daily Sales measure item in the view. There is Daily Sales data for years 2012 through 2014. The Year Days levels are not valid for the other three measure items of Actual Sales, Budget, and Forecast. Data for those three measure items gets assigned to the “Not Valid” member for Year Days. The “Not Valid” member also will show up in related filtering windows for Year Days such as in the Select Members window.

Consider choosing a time dimension that is applicable to all measure items in the view. In the following example, using Year Months instead of Year Days eliminates the “Not Valid” row. Year Months is valid for all four measure items. Here is the updated view after changing the time dimension.

The screenshot shows the same software interface but with 'Year Months' selected in the 'View Explorer' pane. The data table is updated as follows:

Year	Daily Sales Daily Sales Amount	Actual Sales Sales Amount	Budget Budget Amount Frozen	Forecast Baseline Forecast
2006				
2007				
2008				
2009				
2010				
2011				
2012	\$996,282,287	\$3,840,207,548		
2013	\$1,081,490,510	\$7,012,160,085	\$5,108,428,009	401,694,827
2014	\$1,351,863,138	\$3,537,154,864	\$4,819,744,955	695,251,224
2015			\$5,721,439,395	574,423,582
2016				

The 'View Explorer' pane on the right shows 'Year Months' selected under 'Rows'. The 'Year Months' node is expanded, showing 'Year' and 'Months' sub-nodes.

## Why can't I Access the Select Members Window?

This happens if administrative settings are set up such that only the [Advanced Selected Members window](#) is available for a level. Administrators may choose to set up the application that way for levels with a large number of members, for example, the Lot level. In such cases, the Simple Select option will not display when you click the More button in the Advanced Select Members window.

## Why can't I Filter or Sort Cumulative Calculated Measure Items?

The results of a cumulative calculation are accumulating in nature; therefore, sorting and filtering functionality is not available on calculated measure items that use cumulative functions in their expression. Those functions include the Cumulative Total, Cumulative Percent of Total, ABC Cumulative, and ABC Cumulative Percent of Total functions.

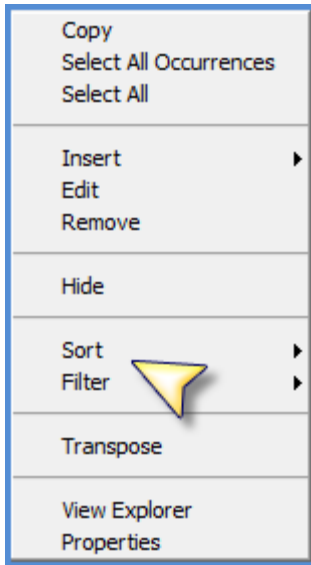
- Sort and Filter options will not display on the [pop-up menu](#) of a calculated measure item that uses a cumulative function.
- Sort and Filter properties will be disabled in the [Properties window](#) for those measure items.
- If a non-cumulative calculated measure item has been sorted or filtered and you want to change it to a cumulative calculated measure item, you must first remove the sorting or filtering.

The view that follows shows an example of this scenario. The “Percent of Total” calculated measure item can be sorted and filtered because it does not perform a cumulative calculation. The “Cumulative % of Total” calculated measure item cannot be sorted and filtered.

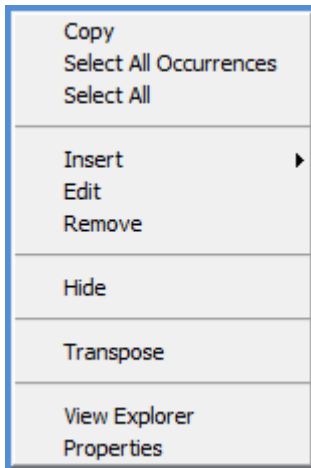
View Name: <i>RepBroker Cumulative Sales</i>				
View Filter				
<b>RepBroker</b>	<b>Product Category</b>	<b>▲ Actual Sales</b> Jan 2014 to Sep 2014	<b>Percent of Total</b>	<b>Cumulative % of Total</b>
<a href="#">Mary Lopez</a>	<a href="#">Frozen Fruit Products</a>	\$5,029,230	.90%	.90%
	<a href="#">Pork</a>	\$7,651,423	1.37%	2.27%
	<a href="#">Beef</a>	\$11,814,665	2.11%	4.38%
	<a href="#">Frozen Prepared Dinners</a>	\$15,690,970	2.81%	7.19%
	<a href="#">Fresh Fruit</a>	\$19,235,673	3.44%	10.63%
	<a href="#">Canned Fruit</a>	\$25,735,340	4.60%	15.23%
	<a href="#">Fresh Vegetables</a>	\$27,251,065	4.87%	20.11%
	<b>Mary Lopez Total</b>	<b>\$112,408,366</b>		
<a href="#">Eleanor Toman</a>	<a href="#">Frozen Fruit Products</a>	\$9,455,123	1.69%	21.80%
	<a href="#">Pork</a>	\$17,749,079	3.17%	24.97%
	<a href="#">Beef</a>	\$18,908,033	3.38%	28.36%
	<a href="#">Fresh Fruit</a>	\$32,031,428	5.73%	34.09%
	<a href="#">Frozen Prepared Dinners</a>	\$44,281,161	7.92%	42.01%
	<a href="#">Fresh Vegetables</a>	\$47,904,721	8.57%	50.58%
	<a href="#">Canned Fruit</a>	\$276,298,202	49.42%	100.00%
	<b>Eleanor Toman Total</b>	<b>\$446,627,746</b>		
<b>Grand Total</b>		<b>\$559,036,113</b>		



Here's the pop-up menu for Percent of Total, with the Sort and Filter options:



Here's the pop-up menu for Cumulative Percent of Total, without Sort and Filter options:



The “Percent of Total” calculated measure item in the next view has a Recursive Top Count filter applied to it. If you attempted to change the expression for “Percent of Total” to a cumulative percent of total, a message would display stating that you need to remove the filter before the cumulative function can be applied to the expression.

**View Name: RepBroker Cumulative Sales**

**View Filter**

Recursive Top Count 5

<b>RepBroker</b>	<b>Product Category</b>	<b>Actual Sales</b> Jan 2014 to Sep 2014	<b>Percent of Total</b>	<b>Cumulative % of Total</b>
<a href="#">Mary Lopez</a>	<a href="#">Fresh Vegetables</a>	\$27,251,065	4.87%	6.37%
	<b>Mary Lopez Total</b>	<b>\$27,251,065</b>		
<a href="#">Eleanor Toman</a>	<a href="#">Fresh Fruit</a>	\$32,031,428	5.73%	13.86%
	<a href="#">Frozen Prepared Dinners</a>	\$44,281,161	7.92%	24.21%
	<a href="#">Fresh Vegetables</a>	\$47,904,721	8.57%	35.41%
	<a href="#">Canned Fruit</a>	\$276,298,202	49.42%	100.00%
	<b>Eleanor Toman Total</b>	<b>\$400,515,511</b>		
<b>Grand Total</b>		<b>\$427,766,577</b>		

## Why Did a Level That I Filtered Get Moved to the View Filter Section of My View?

When you add a new filter to your view, the Filters window in Stratum.Viewer automatically moves that level to the View Filter section. An example follows.

**\*Note:** If the level in question is the second level of a time hierarchy, the level is treated differently than what is described in this topic. See [Treatment of Time-related Levels by the Filters Window](#).

In this view, the Product level currently displays and you can see other levels that are available to drill to in view explorer including RepBroker.

The screenshot shows the Stratum Viewer interface. The main window displays a data table with columns for Ship-To Territory, Product, and various sales metrics. The View Explorer pane on the right shows a tree view of available levels, with 'RepBroker' circled in red.

Ship-To Territory	1100	1102	1103				
STerr Long Description	Southwest	Gulf Coast	Midlantic				
Product	Actual Sales Amount Q1 2014 to Q3 2014	Budget Amount Q1 2014 to Q3 2014	Achievement Percentage	Actual Sales Amount Q1 2014 to Q3 2014	Budget Amount Q1 2014 to Q3 2014	Achievement Percentage	Actual Sales Amount Q1 2014 to Q3 2014
Peach 6oz LnchPk BR* 5B			0%	\$188,411	\$229,193	82%	\$1,112,705
Peach 6oz LnchPk BR* 5J			0%	\$169,570	\$206,273	82%	\$1,001,435
Peach 6oz LnchPk BR* 5I			0%	\$160,150	\$194,814	82%	\$945,799
Pear 6oz LnchPk LS 5B			0%			0%	\$963,526
Applesauce 12oz PL* 5B			0%	\$152,883	\$180,722	▲ 85%	\$801,970
Peach 6oz LnchPk BR* 5H			0%	\$150,729	\$183,354	82%	\$890,164
Peach 6oz LnchPk BR* 5G			0%	\$141,308	\$171,894	82%	\$834,529
Pear 6oz LnchPk LS 5J			0%			0%	\$867,173
Pnappl Slcs 12 oz BR* 5B	\$233,358	\$276,734	▲ 84%	\$431,140	\$518,669	83%	\$815,069
Applesauce 12oz PL* 5J			0%	\$137,595	\$162,650	▲ 85%	\$721,773
Peach Slcs LS 12oz BR* 5B	\$209,495	\$258,144	81%	\$370,829	\$437,569	▲ 85%	\$792,978

The Change Filters button is clicked, and the Filters window shows all levels available (not hidden) for the view. The Change Filter icon is clicked for the RepBroker level.

This close-up screenshot shows the 'Change Filters' button and the 'Change Filters' icon (a funnel) being clicked. The view name is 'RepBroker Sales Achievement Percentage'.

**FILTERS** ✕

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Ship-To Territory: **1100 - Southwest, 1102 - Gulf Coast, 1103 - Midlantic, 1111 - Eastern Atlantic...** ▼ ✕

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Ship-To Territory S... *No filter exists* ▼ ✕

---

Product: *No filter exists* ▼ ✕

---

Product Brand: *No filter exists* ▼ ✕

---

Product Category: *No filter exists* ▼ ✕

---

Product Class: *No filter exists* ▼ ✕

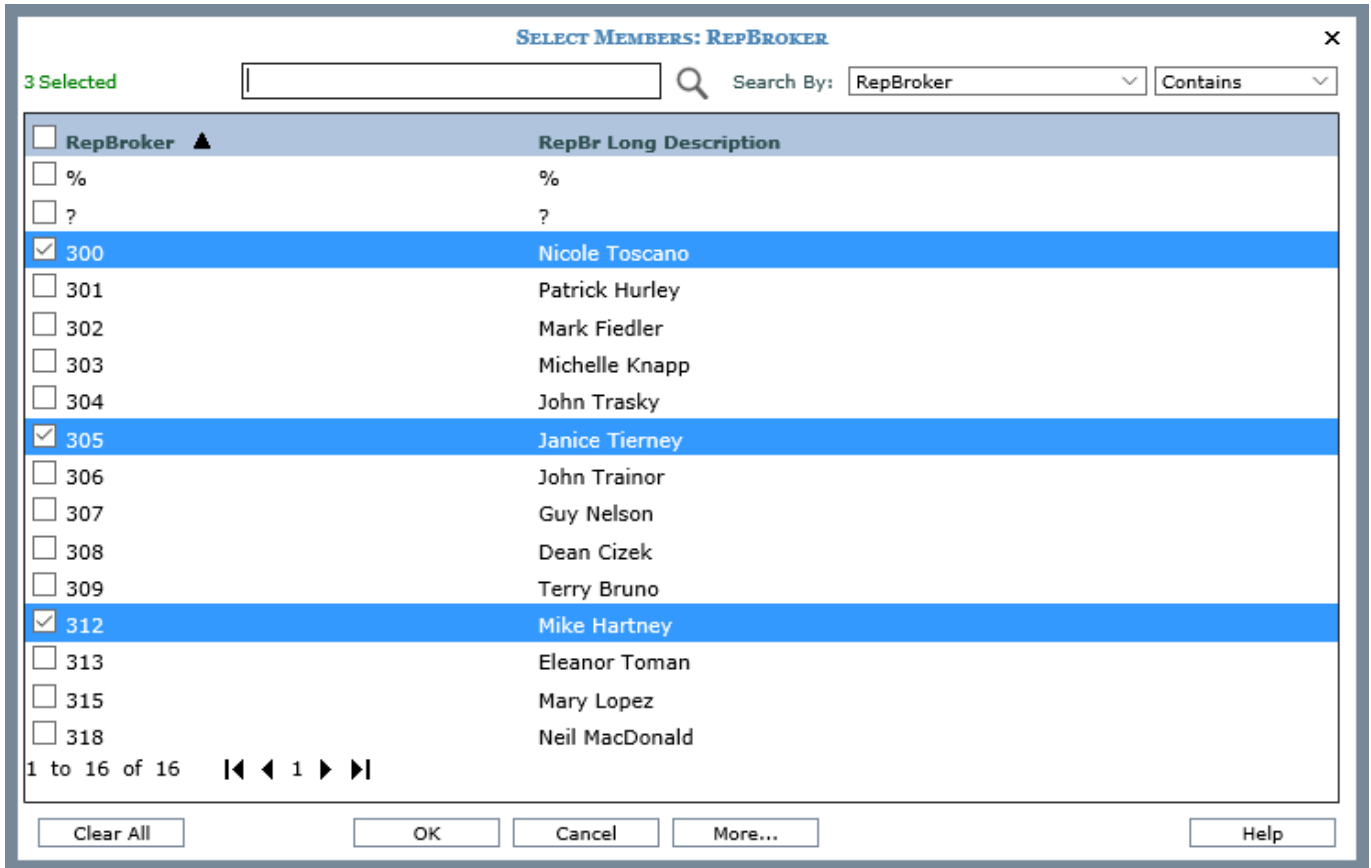
---

Product Family: *No filter exists* ▼ ✕ Change Filter

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RepBroker: *No filter exists* ▼ ✕

Three of the RepBrokers are selected, and OK is clicked in the Select Members window.



The Filters window displays my selections.

The screenshot shows a window titled "FILTERS" with a close button (X) in the top right corner. The window contains a list of filter categories, each with a current selection and a red downward arrow icon followed by an 'X' icon. The 'RepBroker' filter is highlighted with a red oval. At the bottom right, there are two buttons: "OK" and "Cancel".

Filter Category	Current Selection	Icon
Ship-To Territory:	1100 - Southwest, 1102 - Gulf Coast, 1103 - Midlantic, 1111 - Eastern Atlantic...	Downward Arrow X
Ship-To Territory S...	No filter exists	Downward Arrow X
Product:	No filter exists	Downward Arrow X
Product Brand:	No filter exists	Downward Arrow X
Product Category:	No filter exists	Downward Arrow X
Product Class:	No filter exists	Downward Arrow X
Product Family:	No filter exists	Downward Arrow X
RepBroker:	300 - Nicole Toscano, 305 - Janice Tierney, 312 - Mike Hartney	Downward Arrow X

I click OK in that window. The window closes and the refreshed view has RepBroker in the View Filter section. The view is filtered by the three RepBrokers that I selected for the level.

Ship-To Territory >>	1100			1102			1103		
STerr Long Description	Southwest			Gulf Coast			Midlantic		
Product	Actual Sales Amount Q1 2014 to Q3 2014	Budget Amount Q1 2014 to Q3 2014	Achievement Percentage	Actual Sales Amount Q1 2014 to Q3 2014	Budget Amount Q1 2014 to Q3 2014	Achievement Percentage	Actual Sales Amount Q1 2014 to Q3 2014	Budget Amount Q1 2014 to Q3 2014	Achievement Percentage
<a href="#">Peach 6oz LnchPk BR* 5B</a>			0%			0%	\$1,112,705	\$1,362,841	81%
<a href="#">Pear 6oz LnchPk LS 5B</a>			0%			0%	\$963,526	\$1,164,594	83%
<a href="#">Peach 6oz LnchPk BR* 5J</a>			0%			0%	\$1,001,435	\$1,226,557	82%
<a href="#">Peach 6oz LnchPk BR* 5I</a>			0%			0%	\$945,799	\$1,158,415	82%
<a href="#">Pear 6oz LnchPk LS 5J</a>			0%			0%	\$867,173	\$1,048,134	83%
<a href="#">Applesauce 12oz PL* 5B</a>			0%			0%	\$801,970	\$952,817	84%
<a href="#">Peach 6oz LnchPk BR* 5H</a>			0%			0%	\$890,164	\$1,090,273	81%
<a href="#">Pear 6oz LnchPk LS 5I</a>			0%			0%	\$818,997	\$989,905	83%
<a href="#">Peach 6oz LnchPk BR* 5G</a>			0%			0%	\$834,529	\$1,022,131	81%
<a href="#">Applesauce 12oz PL* 5J</a>			0%			0%	\$721,773	\$857,535	84%
<a href="#">Pear 6oz LnchPk LS 5H</a>			0%			0%	\$770,821	\$931,675	83%
<a href="#">Peanut Slec 12 oz BR* 5B</a>			0%	\$274,364	\$330,936	83%	\$815,069	\$963,263	85%

## Why Doesn't a Level for a View Show in the Filters Window?

The Filters window only displays levels in a view that have their Visible property set to Yes. A level will not display in the window if it is defined as hidden (Visible = No). In the following example, three of the levels in the view are hidden including the Region level. The Filters window will display the five levels that are defined as visible, listing the levels that are on columns first followed by the levels on rows.

The screenshot shows two windows from a software application. The top window is titled "View Explorer" and displays a tree view of a view's structure. The tree is expanded to show the "Region" level, which is highlighted in blue. Below the tree is a "Properties - Region" window. This window contains a table of properties for the selected "Region" level. The "Visible" property is set to "No" and is circled in red.

Properties - Region	
Filter	None
Sort	None
Total	Yes
All Others	No
Visible	No
Display Text	Value

**FILTERS** ✕

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Buyer:	<i>No filter exists</i>	⌵ ✕
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Ship-To Market:	<i>No filter exists</i>	⌵ ✕
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Customer Ship-To:	101100ACTH - Wilder Foods -- Quebec QC THA, 101100ADMC - Wilder Foods -...	⌵ ✕
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UPC Global Number:	<i>No filter exists</i>	⌵ ✕
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Product:	<i>No filter exists</i>	⌵ ✕
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## Why is a Filter Property Disabled?

This can happen when:

- [You're a casual user.](#)
- [You're working with a cumulative calculated measure item.](#)
- [You're working with measure items and there are levels on the same axis as level items.](#)
- You are trying to filter Grand Totals that are on the axis opposite from the measure item axis. See [Guidelines for Sorting and Filtering on Totals.](#)

### Casual User

The grid pop-up menu for casual users does not have a Filter option on it. Casual users are only able to edit existing filters by clicking the filter icon  next to the filtered level, attribute relationship, or measure item.

### Cumulative Calculated Measure Item

Filtering is not permitted on calculated measure items that use cumulative functions in their expression. Those functions are the Cumulative Total, Cumulative Percent of Total, ABC Cumulative, and ABC Cumulative Percent of Total functions. The Filter option will not display on the grid pop-up menu of a calculated measure item that uses a cumulative function. Also, the Filter properties will always be disabled in the Properties window for those measure items.

The screenshot displays a data grid with columns: Product Family, Current Wk Sales Amount, Current Wk Sales Units, and Cumulative Current Wk Sales Units. A right-click context menu is open over the 'Cumulative Current Wk Sales Units' column, listing options like Copy, Select All Occurrences, Select All, Insert, Edit, Remove, Hide, Conditional Format, Actions, Transpose, View Explorer, and Properties. The 'Filter' option is absent. The 'Properties - Cumulative Current Wk Sales Units' window is open, showing the 'Filter' property is disabled (greyed out).

Product Family	Current Wk Sales Amount	Current Wk Sales Units	Cumulative Current Wk Sales Units
Frozen Entrée			65,445
Frozen Individual Dinner			131,606
Tender Vegetables			276,070
Hardy Vegetables			388,467
Fruit Fillings			573,263
Applesauce			716,529
Frozen Juice			762,111
Specialty Canned Fruit			879,925
Fruit Cocktail			1,051,458
Peaches			1,295,223
Pears			1,409,209
Pineapple			1,557,639
Fresh Pork	\$5,188,822	77,286	1,634,925
Fresh Beef	\$4,608,416	76,236	1,711,161
Tender Fruits	\$5,994,606	93,073	1,804,234
Hardy Fruits	\$5,090,158	130,728	1,934,962
Grand Total	\$108,960,090	1,934,962	

### Levels on Same Axis as Measure Items

If there are levels on the same axis as the measure items, then Filter will be disabled in measure item Properties windows. You must first filter the measure item via the grid in relation to a particular level member on the measure item axis.

In this view, the measure items are on the columns axis and there is an ABC Classification Code level on columns. The Filter property is disabled in all measure item Properties windows. You can filter by right-clicking an instance of a measure item in the grid (for A, B, or C code) and using the Filter option on the pop-up menu.

After setting up the initial filter that way, the Filter properties will be enabled in the Properties window. You can then edit or remove the filter from the grid or Properties window.

The screenshot shows a data grid with a context menu open over the 'Filter' option. The grid has columns for 'Product Family', 'Current Wk Sales Amount', 'Current Wk Sales Units', 'Cumulative Current Wk Sales Units', and several other sales metrics. The context menu includes options like 'Copy', 'Insert', 'Sort', and 'Filter'. The 'Filter' option is highlighted, and a sub-menu is open with 'Edit' selected. The 'Properties - Current Wk Sales Amount' window is open on the right, showing various properties for the selected measure. The 'Filter' property is highlighted in red in the Properties window.

Product Family	Current Wk Sales Amount	Current Wk Sales Units	Cumulative Current Wk Sales Units	Current Wk Sales Amount	Current Wk Sales Units	Cumulative Current Wk Sales Units	Current Wk Sales Amount
ABC Classification Code >>	A			B			C
ABC Long Description	A			B			C
Product Family							
Hardy Fruits		65,445	65,445				
Grand Total	\$32,541,383	592,797		\$53,964,245	949,837		\$22,45

**Properties - Current Wk Sales Amount**

Caption Expression	Current Wk Sales Amount
Type	Regular
Measure	Actual Sales Sales Amount
Format String	As Is
Value	Yes
Image	No
Conditional Format	No
Pop-up Expression	No
Hyperlink	No
Visible	Yes
Filter	[Dropdown]
Sort	None

### Axis Filter

Axis filters are a means of creating complex filters that contain more than one condition in their filter expression, joined by “and” or “or” statements. They are well suited for analysis that takes into account multiple business conditions. Use them when you need to set up filters involving multiple measure items or both measure items and attribute relationships. For example, you have a business need to see all rows of data for products that meet a certain sales goal but you also want to factor in another performance indicator such as a profit margin, rate of return, or average selling price. You use an axis filter with multiple conditions to zero in on the products of interest to you.

You can set up axis filters on the rows or columns axis. For example, use an axis filter to return all rows that fit the criteria of two different measure items -- such as all rows where Sales Units are greater than 1,000 and Profit Margin is less than 20%.

### Display Column

Display columns provide descriptive information about objects displayed in Stratum.Viewer windows such as the View List and [Select User List Filter windows](#). The display columns available vary by window and object type. Examples of display columns are the date a user list was created, an attribute relationship for a level member, and the owner of a view. You can determine which display columns show while using the [Select Members](#), [Advanced Select Members](#), User List, Member List, and Conditional Format windows.

### View Filter

The View Filter acts as a filter on all visible levels and measure items in a view so that only data that meets View Filter criteria displays. A View Filter is applied no matter what levels are displayed in the view. See also [Using a View Filter vs. a Level Filter](#).