

Dynamic List and Remainder

Objective:

A list with dimension values and the corresponding measure values should only display a certain proportion of the total quantity, e.g. the "Top 10%", i.e. the minimum selection of values that together make up 10% of the total sum of the measure. The remainder of the list should be combined into one list entry ("All others"). The selection should be dynamic, i.e. it should be easy to switch to the "Top 25%" list, for example, without having to make any manual selections.

Solution: Dynamic top x% list

We use the sales data model of the Explore server and build a simple list of product names (dimension "Product") and their sales figures (key figure "Sales"). The percentage can be set using a slider. In the somewhat less dynamic variant also shown here, you have to decide on a fixed percentage.

Step 1:

In the Discover "Dynamic List and Remainder 1", we do not yet have a de facto dynamic, but we can easily see from the two additional columns whether the results generated in the end are correct. For example, a "Top 10%" list must contain these seven top-selling products.

Product	Sales	% Gesamtsumme Sales	Σ % Gesamtsumme Sales
Gesamtsummen	23,268,242.45	100.00%	
Touring-2000 Blue, 60	415,371.68	1.79%	1.79%
Touring-3000 Yellow, 44	368,859.63	1.59%	3.37%
Touring-1000 Blue, 54	345,639.40	1.49%	4.86%
Touring-1000 Blue, 60	343,663.50	1.48%	6.33%
Touring-1000 Yellow, 60	341,502.15	1.47%	7.80%
Road-650 Red, 48	311,504.96	1.34%	9.14%
Mountain-200 Silver, 46	305,711.96	1.31%	10.45%
Mountain-200 Black, 46	297,467.29	1.28%	Top 10% 11.73%
Touring-3000 Blue, 44	292,144.55	1.26%	12.99%
Road-650 Red, 44	289,852.65	1.25%	14.23%

Step 2:

In step 2, the dynamic lists are built using formulas. As we not only want to see the top selection in the final result, but also the remainder, we need a pair of formulas, for example the "Top 10%" list and the "Flop 90%" list or generally the "Top x%" list and the "Flop 100-x%" list.

The formulas consist of a standard list object to which a corresponding "Top percentage" filter is applied with the specification of the key figure (here: Sales). In the latter, the percentage can be hard-coded (see Formulate "List of top 10% products by sales") or kept dynamic via a parameter. To define the formulate counterpart, in the filter object has to be specified that the defined quantity is to be excluded from the result set, i.e. we receive a list without the top 10% or without the top x%!

For the variant with the dynamic percentage value parameter, it is therefore important that this parameter is created and saved first so that it can be used by both dynamic formulas (see formulas "List of top x% product by sales" and "List of flop 100-x% product by sales").

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Liste der Flop 100-x% Product nach Sales

Standardliste Product - (All) → Oben Prozentwe... Measures - Sales

Oberer Prozentwert Eigenschaften

Liefert eine abgeleitete Liste der TOP-Elemente aus der vorhandenen Liste zurück, die auf einen angegebenen Prozentsatz der Gesamtsumme der gesamten Liste addiert werden.

Argumente einfügen
Argumente eingeben

Einen Datenpunkt wählen
Wählen Sie einen Datenpunkt, der evaluiert werden sollte. Zum Beispiel Vertrieb für 2010

Argumente

Prozentwert

Parameterisieren

Prozentwert

Aus Ergebnisliste ausschließen

Für "Flop" ausschließen!

Parameter auswählen

- Meine Inhalte
- Arbeitsgruppen-Inhalte
 - noz-next Content
 - _HOW TO
 - Dynamische Liste und Rest
 - Prozentwert
 - Discover
 - Present
 - Publish
- Öffentlicher Inhalt

In Discover "Dynamic List and Remainder 2", all formulate objects are now available in the business logic of the "Product" dimension. To try out the effects of the formulas for the list, only one of them should be selected in each case. All individual values of the dimension must be deselected. The slider only appears for dynamic formulas. If you select several formulas - especially the two of a pair - you will of course always see the complete list ("Top x" + "Flop 100-x").

Elemente

Dropzones

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71 Prozentwert 15 0 100

Sales nach Product

Product	Sales
Gesamtsummen	3,593,660.88
Touring-2000 Blue, 60	415,371.68
Touring-3000 Yellow, 44	368,859.63
Touring-1000 Blue, 54	345,639.40
Touring-1000 Blue, 60	343,663.50
Touring-1000 Yellow, 60	341,502.15
Road-650 Red, 48	311,504.96
Mountain-200 Silver, 46	305,711.96
Mountain-200 Black, 46	297,467.29
Touring-3000 Blue, 44	292,144.55
Road-650 Red, 44	289,863.65
Mountain-200 Silver, 42	281,932.11

Elemente

- Product
- Adjustable Race
- All-Purpose Bike Stand
- AWC Logo Cap
- BB Ball Bearing
- Bearing Ball
- Bike Wash - Dissolver
- Blade
- Cable Lock
- Chain
- Meine Inhalte
- Arbeitsgruppen-Inhalte
 - noz-next Content
 - _HOW TO
 - Dynamische Liste und Rest
 - Liste der Flop 100-x% Product nach Sales
 - Liste der Flop 90% Product nach Sales
 - Liste der Top 10% Product nach Sales
 - Liste der Top x% Product nach Sales
- Öffentlicher Inhalt

Dropzones

- Spalten
- Werte
- Zeilen
- Product
- Werte
- Sales
- Filter
- Farbe
- Indikator
- Größe
- Tooltip

Step 3:

In the last step, the two formulas of a pair are now selected so that the overall list appears - the individual formulas are still not selected! Then right-click on the "Top" formulae and select the grouping function "List & group all others". As a result, the list is now formed by the top list and the grouped elements, i.e. those combined into the rest ("All others").

In Discover "Dynamic List and Remainder 3", the steps described above have already been carried out, so the solution can be tried out directly!

The screenshot displays a software interface for configuring dynamic lists. On the left, a sidebar shows a tree view of content. Under 'Arbeitsgruppen-Inhalte' > 'noz-next Content' > '._HOW TO' > 'Dynamische Liste und Rest', there are four list items: 'Liste der Flop 100-x% P...', 'Liste der Flop 90% Prod...', 'Liste der Top 10% Prod...', and 'Liste der Top x% Produ...'. Below this, under 'Öffentlicher Inhalt', there are two items: 'All Others' and 'Liste der Top x% Product nach S...'. Both 'All Others' and 'Liste der Top x% Product nach S...' are checked. The 'Dynamische Liste und Rest' items are also checked, but their checkboxes are not highlighted with a red box.

The main area shows a table titled 'Sales nach Product' with columns 'Product' and 'Sales'. The table data is as follows:

Product	Sales
Gesamtsummen	23,268,242.45
Touring-2000 Blue, 60	415,371.68
Touring-3000 Yellow, 44	368,859.63
Touring-1000 Blue, 54	345,639.40
Touring-1000 Blue, 60	343,663.50
Touring-1000 Yellow, 60	341,502.15
Road-650 Red, 48	311,504.96
Mountain-200 Silver, 46	305,711.96
Mountain-200 Black, 46	297,467.29
Touring-3000 Blue, 44	292,144.55
Road-650 Red, 44	289,863.65
Mountain-200 Silver, 42	281,932.11
All Others	19,674,581.57