

Adding A Calculation

When creating a calculation you can choose one of the available templates, or define a custom expression.

Prerequisites

You have accessed the **Calculation Groups** panel in the dimension editor, and created or selected the group to which you want to add a single calculation. For details, see [Adding Calculation Groups](#).

Creating Standard Calculations

1. Open the menu next to the filter field in the panel, and choose **New Calculation**.
2. In the **Create Calculation** dialog, enter a name that is unique within the calculation group. Consider the following:
 - ▲ If you are going to use a standard calculation template (see next step) - and you leave the name field empty - the name would be set automatically based on the calculation and dimension attribute you select.
 - ▲ When using Tableau or Power BI, consider the limitation described in [Known Issues and Limitations](#).
3. In the **Calculation** field, choose one of the available calculation templates (not **Custom**).
4. In the **Formatting** field, do one of the following:
 - ▲ Leave the default formatting values for the selected calculation template.
 - ▲ Select or deselect the **Use Input Measure's Formatting** checkbox.
When this checkbox is selected, the calculation results always use the formatting defined for the input measure. This is useful for calculations that can't have a standard output format.
Note that you cannot choose a formatting option if this checkbox is selected.
 - ▲ Choose a formatting option from the list.
 - ▲ Choose **Custom** and enter the format manually in the field on the right.
5. In the **Dimension Attribute** field, select hierarchy or attribute from the dimension.

Consider that when the calculation template requires a time unit, then you cannot select dimensional attributes without time units. For example, if you select the "Year over Year" calculation, then the dimension attribute list will show all dimension attributes; however, you will only be able to select levels or level aliases that have non-null Time-Unit settings.

6. Review the expression in the bottom part of the dialog.

In case you want to modify the expression manually you can choose the **Advanced editing** button. Note that this would make the calculation custom; for details, see the section below.

7. Click **Save**.

The system would validate the expression. When it is valid the calculation would be saved. Otherwise, it would display messages with information about the issues.

Creating Custom Calculations

1. Open the menu next to the filter field in the panel, and choose **New Calculation**.
2. In the **Create Calculation** dialog, enter a name that is unique within the calculation group.
3. In the **Calculation** field, choose **Custom**.
4. In the **Formatting** field, do one of the following:

- ▲ Leave the default formatting values for the selected calculation template.

- ▲ Select or deselect the **Use Input Measure's Formatting** checkbox.

When this checkbox is selected, the calculation results always use the formatting defined for the input measure. This is useful for calculations that can't have a standard output format.

Note that you cannot choose a formatting option if this checkbox is selected.

- ▲ Choose a formatting option from the list.

- ▲ Choose **Custom** and enter the format manually in the field on the right.

5. Enter the expression you need.

You can use the **Hierarchies** to add dimension hierarchies, levels, or attributes, and the **Functions** menus to add MDX functions to the expression.

6. Review the expression in the bottom part of the dialog.
7. Click **Save**.

The system would validate the expression. When it is valid the calculation would be saved. Otherwise, it would display messages with information about the issues.

Result

The calculation you created would be displayed in the **Calculation Groups** panel. If needed, you can modify or remove it.