

Introduction

Description

This document describes how to create a *calculated Key Figure*: a Key Figure you build based on calculations performed on existing Key Figures within a Business Warehouse (BW) report.

Prerequisites

- It is assumed that you have run a BW report and want to add a calculation to the report based on existing Key Figures.

Menu Path

None

Transaction

None

Tips and Tricks

- Instructions calling for a mouse right-click can be executed on a Macintosh computer with a one-button mouse by holding down the **CTRL** key while clicking.

Referenced Online Help Documents

- None

Instructions

A calculation can be performed on Key Figures in any report - as long as the calculation makes sense. The examples in this Work Instruction are based on data in a Supplier Relationship Management (SRM) report.

Example 1: Subtraction

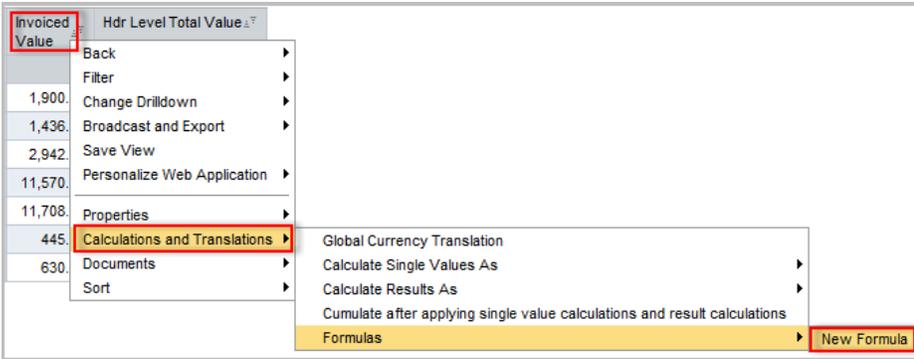
Our first task is to perform the following calculation on a Limit Order:

$$[\text{original Limit Order set-up amount}] - [\text{total invoiced amount}] = [\text{amount remaining to be spent against Limit Order}]$$

In this case, the original set-up amount is represented by **Hdr Level Total Value**, while **Invoiced Value** represents the total invoiced amount.

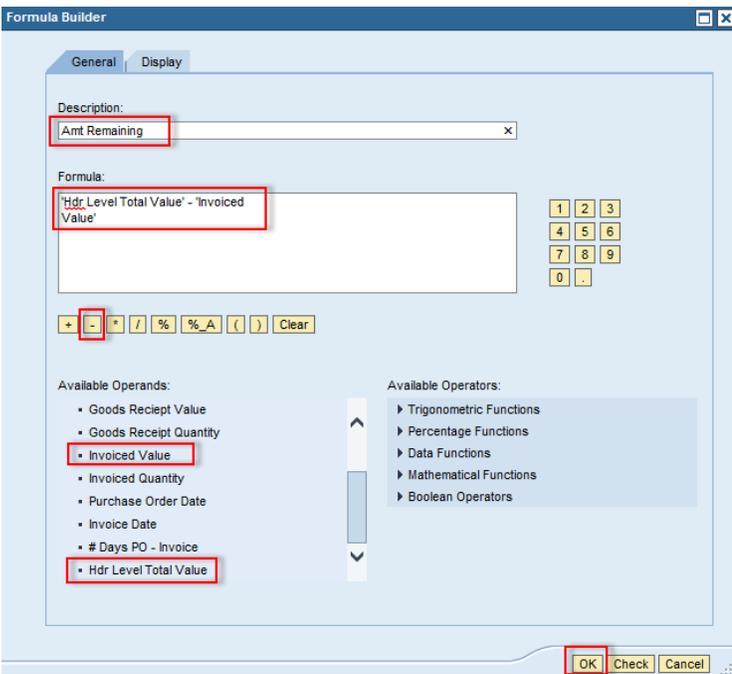
Invoiced Value	Hdr Level Total Value
\$	\$
1,900.77	3,600.00
1,436.41	4,000.00
2,942.48	5,000.00
11,570.00	11,000.00
11,708.50	13,090.00
445.12	4,000.00
630.12	5,000.00

This is our starting point, showing the two Key Figures involved in the calculation



1. Right-click on either of the Key Figures to display a context menu.
2. Slide the cursor down to *Calculations and Transactions* and then slide right to *Formulas* and click on *New Formula*.

The **Formula Builder** window is displayed



3. Enter a Description. This will appear as the label on the new Key Figure column
4. Enter the calculation. Click on the Operand **Hdr Level Total Value** to add this to the formula. Click on the “-” Operator (or simply type “-” on your keyboard) and, finally, click on the second Operand, **Invoiced Value**
5. Click **OK** to execute the calculation

Invoiced Value	Hdr Level Total Value	Amt Remaining
\$	\$	\$
1,900.77	3,600.00	1,699.23
1,436.41	4,000.00	2,563.59
2,942.48	5,000.00	2,057.52
11,570.00	11,000.00	-570.00
11,708.50	13,090.00	1,381.50
445.12	4,000.00	3,554.88
630.12	5,000.00	4,369.88

6. The result of the calculation: a new Key Figure named **Amt Remaining**

Example 2: Percent Calculation

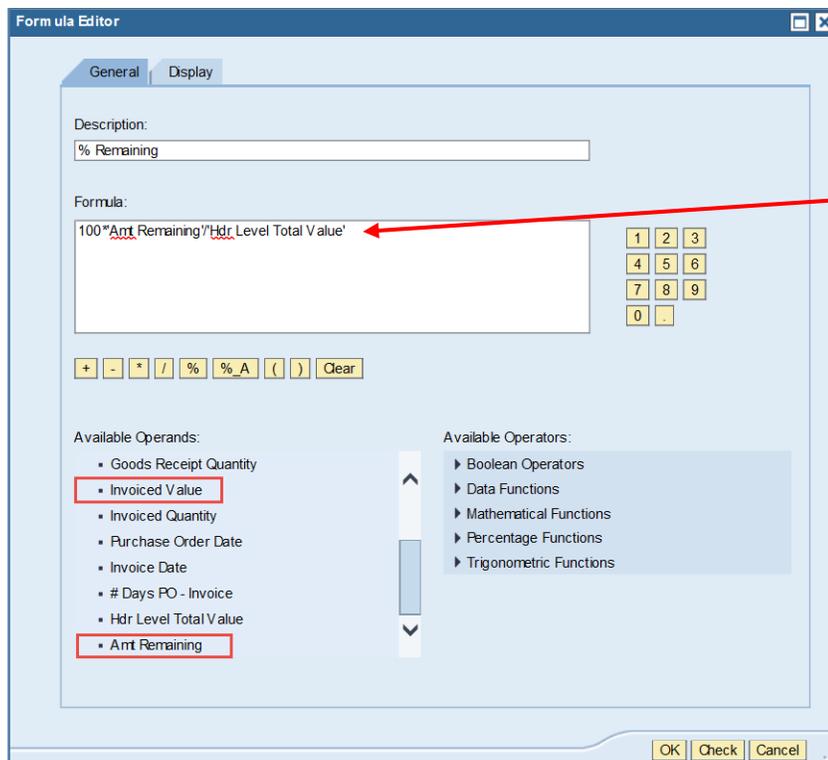
Using the data in the previous example, we can add a calculated Key Figure to show the remaining amount as a percentage. Before getting to the calculation steps, let's quickly review how to derive a percentage:

- a) The starting point is to divide [change in value] by [original value]. That division will yield a decimal result in the form .1234

Note that [change in value] is what we calculated previously: **Amt Remaining**

- b) To represent that decimal as a percentage, we need to multiply it by 100, giving us 12.34%

Now we are ready to perform our calculation. To start, follow Steps 1-3 in the previous calculation.



- 4. Specify a Description, e.g., **% Remaining**
- 5. Enter the calculation in the *Formula* field: 100 times **Amt Remaining** divided by the original Limit Order Amount (**Hdr Level Total Value**). Enter the calculation using the *Operands* and *Operators* available in the **Formula Builder** window. Your formula will look like that in this example
- 6. Click the **OK** button to perform the calculation

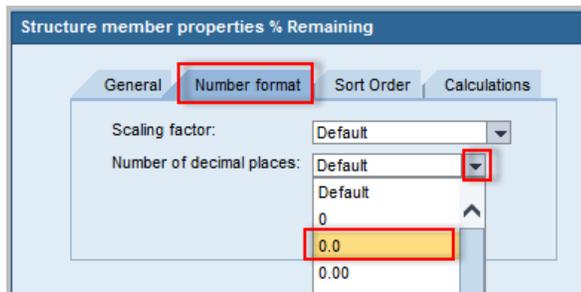
Invoiced Value	Hdr Level Total Value	Amt Remaining	% Remaining
\$	\$	\$	
1,900.77	3,600.00	1,699.23	47.2008
1,436.41	4,000.00	2,563.59	64.0898
2,942.48	5,000.00	2,057.52	41.1504
11,570.00	11,000.00	-570.00	-5.1818
11,708.50	13,090.00	1,381.50	10.5539
445.12	4,000.00	3,554.88	88.8720
630.12	5,000.00	4,369.88	87.3976

- 7. Here's the result of the calculation

Three decimal places is probably too fine a point to put on this calculation, so let's adjust that

Amt Remaining	% Remaining
\$	
1,699.23	47.2008
2,563.59	64.088
2,057.52	41.150
-570.00	-5.18
1,381.50	10.55
3,554.88	88.87
4,369.88	87.39

8. Right-click on any one of the cells in the **% Remaining** column, slide the cursor down to *Properties*, then slide right and click on *Data Cell*



- 9. Select the **Number Format** tab
- 10. Click the *Number of decimal places* dropdown and select the number of decimal places you want
- 11. Click the **OK** button

Note: the opportunity to set the number format was available at the time the calculation was being entered. Formatting could have been adjusted by clicking on the **Display** tab in the **Formula Builder** window in Step 4.

Amt Remaining	% Remaining
\$	
1,699.23	47.2
2,563.59	64.1
2,057.52	41.2
-570.00	-5.2
1,381.50	10.6
3,554.88	88.9
4,369.88	87.4

Here's the result with a single decimal place specified

Results and Next Steps

As you probably noticed when you had the **Formula Builder** window open, there are several other kinds of calculations that can be performed. You may want to explore using some of the other functions.