

Calculations

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Overview

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Calculated fields allow you to create basic calculations with the fields available in your report.

Note: a calculated field that you create in the report builder cannot be used across multiple reports. It is unique to your report only. If you create a set of calculated fields you wish to use across multiple reports you can either:

1. Request the calculations to be included in the View by your administrator or
2. Copy the report containing the calculations using the copy function – the copied report will contain the new calculated fields as well.

Why Use Calculated Fields?

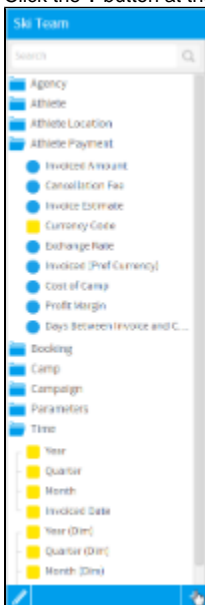
When an administrator designs a View they may not create all the variables that you are likely to need in the course of your report writing. The intention of a view is to provide you with sufficient fields for you to be able to write the report you need and to use some of these fields as the basis for more complex calculations.

Simple Formula

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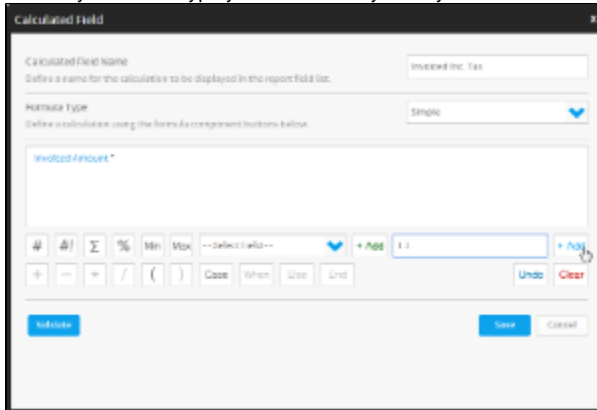
Simple Formulas allow you to build calculations using the formula builder button interface. These may range from very simple addition or multiplication through to CASE statements.

1. Click the **+** button at the bottom of the field list in the Data step of the report builder.

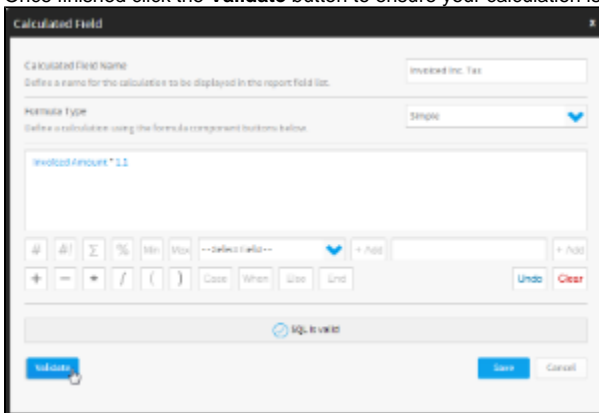


2. The Calculated Field window will now appear. You will need to define the following:
 - a. Provide a name for your formula in the **Calculated Field Name** box. This will be used as the field name in your table and/or chart output.
 - b. Select **Simple** from the **Formula Type** drop down list.
 - c. Use the formula buttons and field drop down list to add components to your calculation. You cannot type directly into the calculation area of the window, each part of the formula needs to be added using buttons. Yellowfin will not permit you to select combinations of variables

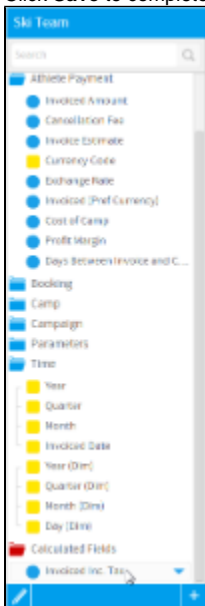
that are incompatible – therefore options that are greyed out will become active as you add in elements.
Note: if you wish to type your calculation you may need to use the [Freehand SQL](#) option discussed later.



3. Once finished click the **Validate** button to ensure your calculation is not missing any components.



4. Click **Save** to complete your calculation. It will now be available in a folder called calculated fields at the bottom of the field list in the Data step.

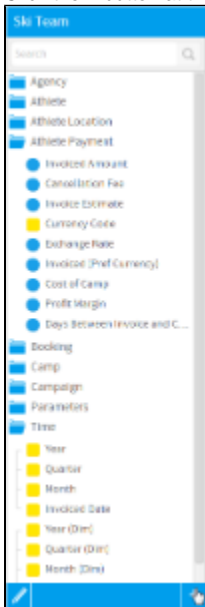


Pre-Defined Formula

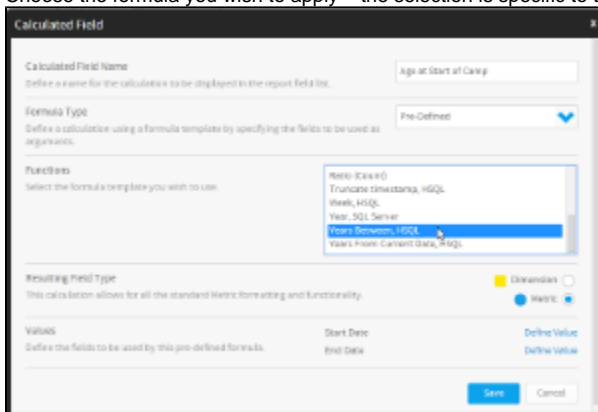
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Using a pre-defined formula you can add calculation to your report that will be based on formula rules defined by an administrator or are system default.

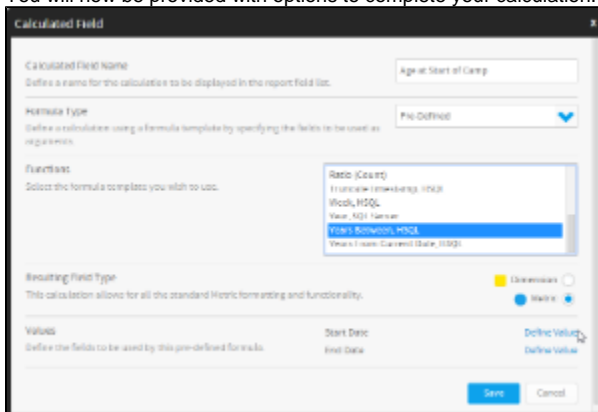
1. Click the **+** button at the bottom of the field list in the Data step of the report builder.



2. The Calculated Field window will now appear. You will need to define the following:
 - a. Provide a name for your formula in the **Calculated Field Name** box. This will be used as the field name in your table and/or chart output.
 - b. Select **Pre-Defined** from the **Formula Type** drop down list.
 - c. Choose the formula you wish to apply – the selection is specific to the type of database that your data is sourced from.



- d. You will now be provided with options to complete your calculation. Click on each parameter to define it.



- e. Provide a value using one of the options provided. These will vary depending on the type of value required.

Calculated Field

Calculated Field Name: Define a name for the calculation to be displayed in the report field list. Age at Start of Camp

Formula Type: Define a calculation using a formula template by specifying the fields to be used as arguments. No Defined

Functions: Select the formula template you wish to use. Ratio (Count)
Truncate (timestamp, ISO)
Weeks, HSQL
Year, SQL Server
Years Between, HSQL
Weeks From Current Date, ISO

Resulting Field Type: This calculation allows for all the standard HSQL formatting and functionality. Dimensions Measure

Start Date: Date of Birth
Type: Date

End Date: Current Date
Unit: Days

OK Cancel

3. Click **Save** to complete your calculation.

Calculated Field

Calculated Field Name: Define a name for the calculation to be displayed in the report field list. Age at Start of Camp

Formula Type: Define a calculation using a formula template by specifying the fields to be used as arguments. No Defined

Functions: Select the formula template you wish to use. Ratio (Count)
Truncate (timestamp, ISO)
Weeks, HSQL
Year, SQL Server
Years Between, HSQL
Weeks From Current Date, ISO

Resulting Field Type: This calculation allows for all the standard HSQL formatting and functionality. Dimensions Measure

Values: Define the fields to be used by this pre-defined formula. Start Date: Date of Birth
End Date: Current Date

Unit: Days

Save Cancel

4. Your calculation will now be available in a folder called calculated fields at the bottom of the field list in the Data step.

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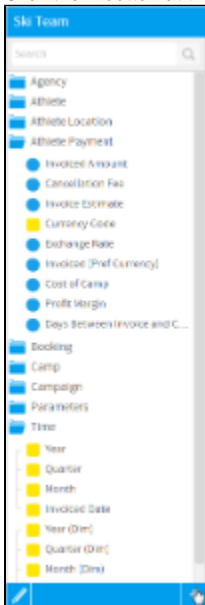
Freehand SQL

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If you have SQL skills you may wish to write your SQL directly into the SQL edit box. In this case select the 'Enter SQL' option from the formula tab. This will open the SQL edit box.

Insert the SQL you wish to create your column.

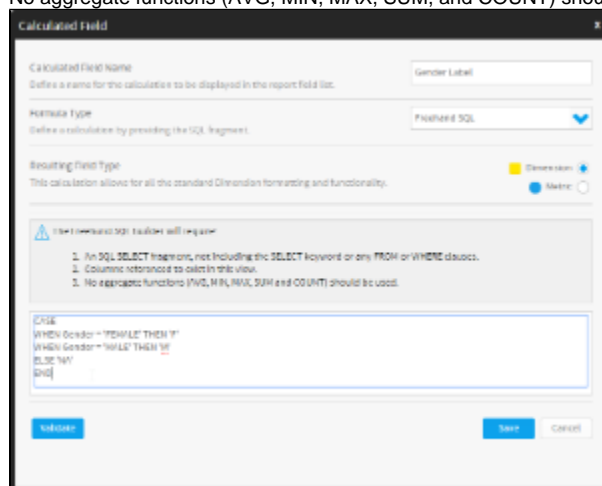
1. Click the **+** button at the bottom of the field list in the Data step of the report builder.



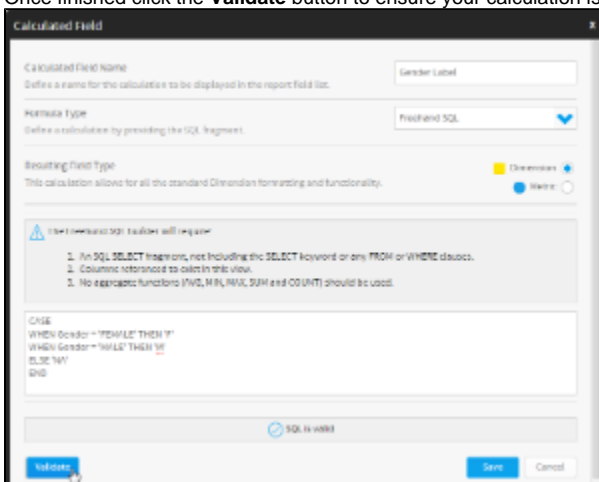
2. The Calculated Field window will now appear. You will need to define the following:
 - a. Provide a name for your formula in the **Calculated Field Name** box. This will be used as the field name in your table and/or chart output.
 - b. Select **Freehand SQL** from the **Formula Type** drop down list.
 - c. Enter the SQL use wish to use to populate the field.

Note: The Freehand SQL builder will require:

 - i. An SQL **SELECT** fragment, not including the **SELECT** keyword or any **FROM** or **WHERE** clauses
 - ii. Columns referenced to exist in the view
 - iii. No aggregate functions (**AVG**, **MIN**, **MAX**, **SUM**, and **COUNT**) should be used.



3. Once finished click the **Validate** button to ensure your calculation is not missing any components.



4. Click **Save** to complete your calculation. It will now be available in a folder called calculated fields at the bottom of the field list in the Data step.

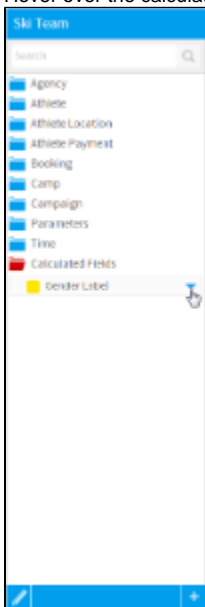


Edit a Calculated Field

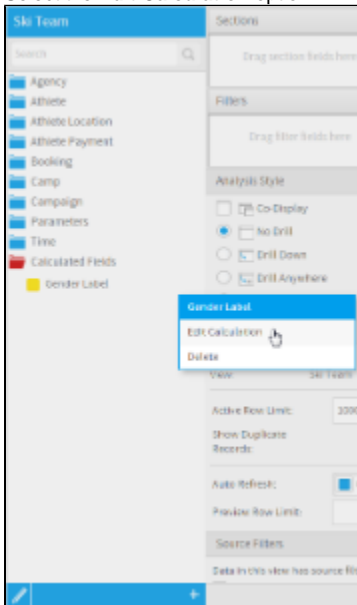
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To edit a calculated field:

1. Hover over the calculation in the Field List of the Data step and click on the drop down menu to open it



2. Select the **Edit Calculation** option

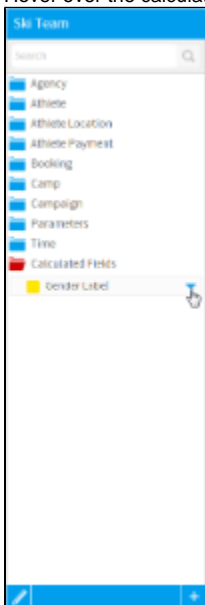


Delete a Calculated Field

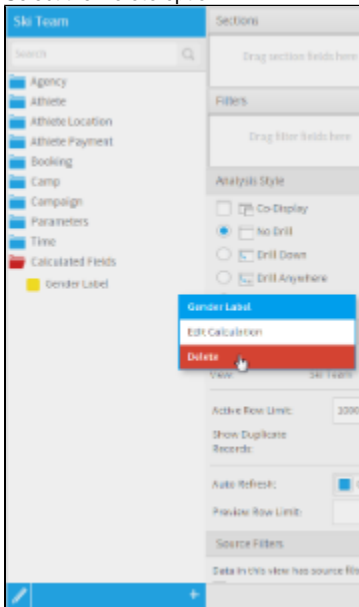
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To delete a calculated field:

1. Hover over the calculation in the Field List of the Data step and click on the drop down menu to open it



2. Select the **Delete** option



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