

# Task Factory Advanced Derived Column Transform

Last Modified on 15 August 2022


🔔 Task Factory users running version 2020.1.4 or older (released prior to May 27, 2020): **There's an important Task Factory update.** Please visit [here](#) for more details.

## In this article:

- [Advanced Derived Column Transform](#)
- [General Tab](#)
- [Advanced Tab](#)

## Advanced Derived Column Transform

Transform Icon	Transform Description

Transform Icon	Transform Description
	<p>The <b>Advanced Derive Column Transform</b> is used to create columns in an SSIS data flow using columns, variables, and expressions.</p>

TF - Advanced Derived Column Transform - 2021.18.1

**Advanced Derived Column Transform**  
Create derived columns using advanced functions within the function library

- Variables
- Connections
- Columns
  - Number
  - [Last Name]
  - [First Name]
  - Address

Find Function:

- <All Functions> (195)
- <ALL Constants> (7)
- <ALL Operators> (30)
- Binary/Decimal/Hex (13)
- Character (29)

**Column:**  
**Datatype:**  
**Length: Precions/Scale:**

General    **Advanced**

Name	Action	Expression	Data Type	Length	Precision	Scale	CodePage
	<add as new column>		<Select Datatype>				

Description:

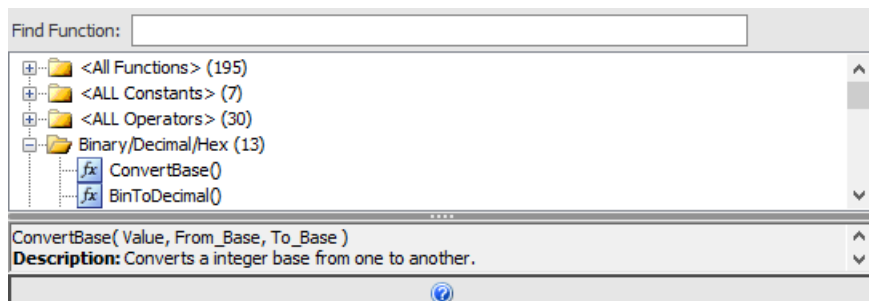
### Column Browser

- Variables
- Connections
- Columns
  - Number
  - [Last Name]
  - [First Name]
  - Address

**Column:**  
**Datatype:**  
**Length: Precions/Scale:**

Located on the left hand side, the column browser window shows you all the available columns, variables and connections that can be used as part of a derived column expression. Selecting a plus sign next to a group in the tree view expands that group of items. Any item from the column browser can be dragged into an expression in the column grid below.

## Functions Browser



Located on the right hand side, the functions browser window lists all of the available functions that can be used in the advanced derived column (as well as any of the expressions based tasks). All functions are grouped into an appropriate group (e.g. Character, Data Cleansing) based on what the function either does or returns. For instance, the character function Left is listed under the **Character** group because it performs operations on a set of characters or a string. Selecting a function gives you a description, syntax overview, and examples on how to use the function.

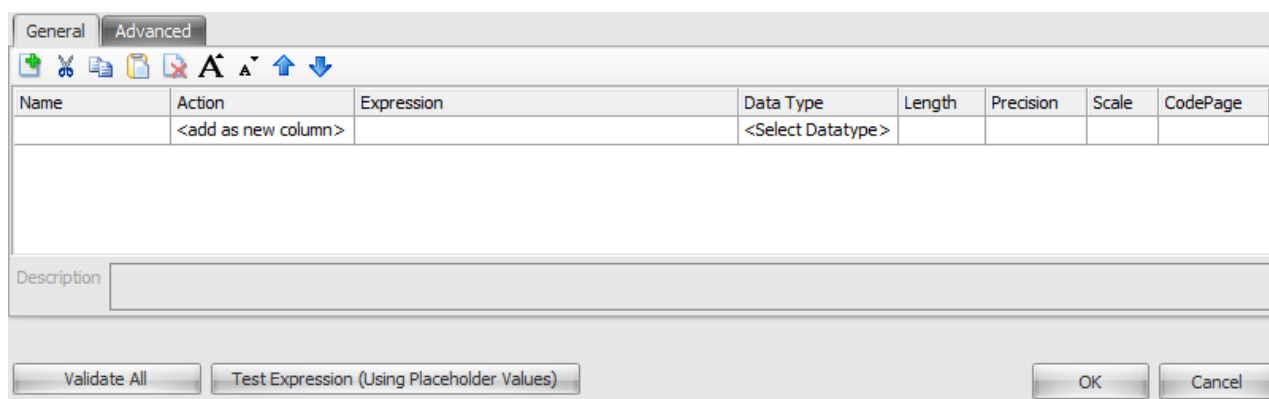
## Available Functions List

For a list of all available functions, along with syntax, descriptions, and examples, see the [Functions List](#) page.

## Columns Grid

The **Columns Grid** (the bottom window) allows you to define the new derived column, replace columns, and setup variable expression columns that can be used in other column expressions.

## General Tab



Column	Description
<b>Name</b>	The name of the column or expression.

Column	Description
<b>Action</b>	The action this column performs. <ul style="list-style-type: none"> <li>• <b>Variable Expression</b> - This option creates a reusable expression that can be used in the expression column of the current column or other columns in the grid.</li> <li>• <b>Add As New Column</b> - This creates a new derived column based on the expression.</li> <li>• <b>Replace Column</b> - This replaces an input column's data with the result of the expression.</li> </ul>
<b>Expression</b>	This is the expression used to perform the action from the action column.
<b>Data Type</b>	The data type for the current column.
<b>Length</b>	The length of the current column.
<b>Precision</b>	The precision of the current column.
<b>Scale</b>	The scale of the current column.
<b>CodePage</b>	The code page of the current column.

## Advanced Tab

General | **Advanced**

Note: Below options will override any column level row disposition options for error or truncation

On Truncation:

On Error:

Max Errors to Ignore:  How many errors to ignore before failing component. Enter -1 to Ignore All Errors

Max Warnings:  Maximum how many warnings you want to show in the execution log when you have errors or data truncation. 0=Show All

Validate All | Test Expression (Using Placeholder Values) | OK | Cancel

Option	Description
<b>On Truncation</b>	Action to take when a truncation occurs.
<b>On Error</b>	Action to take when an error occurs.
<b>Max Errors to Ignore</b>	How any errors to ignore before failing component.
<b>Max Warnings</b>	Maximum number of warnings you want to show in the execution log when you have errors or data truncation.

## Validate All Button

The **Validate All** button evaluates all of the expressions and checks if they have errors. An error or warning icon displays if there are any issues with the expressions.

## Test Expression (Using Placeholder Values) Button

This button creates temporary values based on the data type and execute the expression that is currently selected in the grid.

**Note:** To test the expression by entering your own values use the expression editor.