

Calc: Formula

Formula based on other fields

Properties

- Type: Complex
- Groupable: No
- Show in lists: Yes
- Searchable: Yes
- Requires configuration: Yes

User interface

Field in show mode

Sigma change 2,81

Due to its nature this field has no special editing mode.

Configuration

Edit field configuration

Display: Only value (dropdown), CATEGORIES (button)

Client update (dropdown)

Formula: [Empty text area]

Buttons: Select a field to add to expression (dropdown), +, -, x, /, ^, PI, SQRT, LOG, LOG10, ABS, (...), (...)

CANCEL (button)

[Description of configs]

Complex formulas

Calculated formulas syntax follows is compliant with JavaScript syntax.

Common operators

- Add: +
- Subtract: -
- Division: /
- Multiply: *
- Modulus: %
- Precedence: (...)

Mathematical functions

- Absolute: abs
- Minimum: max
- Maximum: min
- Power: pow
- Square root: sqrt
- Logarithms: log log10 exp
- Rounding: ceil floor round

Mathematical constants

- Pi: pi
- E: e

Support for statements

This feature is enabled starting from version 2366.

IF statement

Syntax used matches JavaScript inline IF statements.

To make the statement work make sure to add a space: before `)`, after `(`, before and after `?` and `:`.

```
( Value1 Operator Value2 ? ValueIfTrue : ValueIfFalse )
```

- Test
 - First value or expression
 - Operator
 - Equal: =

- Unequal: !=
- Greater: > (>=)
- Lesser: < (<=)
- Second value or expression
- Result
 - TRUE value or expression
 - FALSE value or expression

Examples

Script code / specification

```
var result;  
if ( [NUMBER1] > [NUMBER2] ) {  
    result = [NUMBER1] * 11;  
}  
else {  
    result = [NUMBER3];  
}  
return result;
```

Expression to use in formula

```
( [NUMBER1] > [NUMBER2] ? [NUMBER1] * 11 : [NUMBER3] )
```

Developer info

- FeltTypeID: 81
- SQL datatype: DECIMAL(20,4)
- Class name: FieldCalcFormula

Revision #4

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