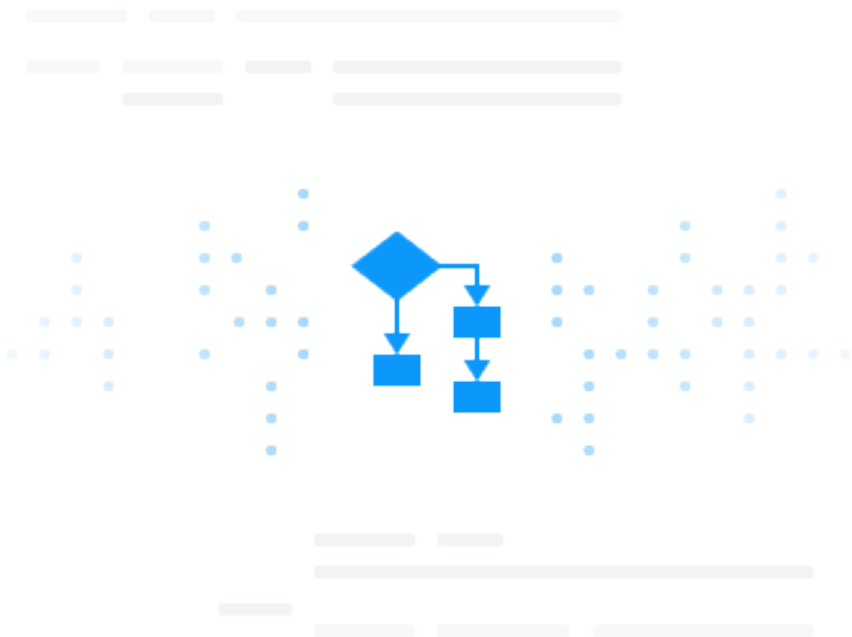# Calculator_Operations_Rules(1.0)

Table of Contents

Properties

Name: Calculator_Operations_Rules

Version: 1.0

Description:

Location: /Users/Joe.Furbee@sas.com/My Folder

Date created: Nov 5, 2021 07:57 AM

Created by: Joe.Furbee@sas.com

Date modified: Nov 5, 2021 12:32 PM

Modified by: Joe.Furbee@sas.com

Object URI: /businessRules/
                     ruleSets/8c4a9946-39fe-4b14-aa4d-
                     d435542f91a6/revisions/
                     a75484f5-8667-4ec7-a990-1e35fae55717

Type: Assignment

Rules

OP = Addition

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 10:02 AM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 10:21 AM
Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
Rule_In_OP = 'Add'	
Actions:	
Rule_Out_OP1 = Rule_In_OP1 , Rule_Out_OP2 = Rule_In_OP2	

OP = Subtraction

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 10:21 AM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 10:21 AM
Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
Rule_In_OP = 'Sub'	
Actions:	
Rule_Out_OP1 = Rule_In_OP1 , Rule_Out_OP2 = Rule_In_OP2	

OP = Mul OR Div > Log(OpX)

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 10:28 AM

Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 10:54 AM
Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
(Rule_In_OP in('Mul','Div')) AND (Rule_In_OP1 < 0)	
Actions:	
Rule_Out_OP1 = LOG(ABS(Rule_In_OP1)) AND Rule_Out_OP2=LOG(ABS(Rule_In_OP2))	

OP = Mul OR Div > Sign Positive

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 10:54 AM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 04:01 PM
Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
Rule_In_OP in('Mul','Div') AND (Rule_In_OP1>0 AND Rule_In_OP2 >0)	
Actions:	
Rule_Out_MulDiv_Sign ='Positive'	

Default_rule_1

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 12:03 PM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 12:03 PM
Rule-Fired Tracking	true
Conditional	or
Valid	valid
Conditions:	
Rule_In_OP in('Mul','Div')AND(Rule_In_OP1 <0 AND Rule_In_OP2 <0)	
Actions:	

OP = Mul OR Div > Sign Negative

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 12:05 PM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 04:01 PM
Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
Rule_In_OP in('Mul','Div') AND (Rule_In_OP1>0 AND Rule_In_OP2 <0)	
Actions:	
Rule_Out_MulDiv_Sign='Negative'	

Default_rule_1_Copy

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 12:05 PM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 12:05 PM
Rule-Fired Tracking	true
Conditional	or
Valid	valid
Conditions:	
Rule_In_OP in('Mul','Div')AND(Rule_In_OP1 <0 AND Rule_In_OP2 >0)	
Actions:	

OP = Mul OR Div

Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 12:31 PM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 12:31 PM

Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
(Rule_In_OP = 'Mul' OR Rule_In_OP ='Div')	
Actions:	
Rule_Out_OP1 = LOG(ABS(Rule_In_OP1)) AND Rule_Out_OP2=LOG(ABS(Rule_In_OP2))	

OP = Division	
Description	
Created by	Joe.Furbee@sas.com
Date created	Nov 5, 2021 12:31 PM
Modified by	Joe.Furbee@sas.com
Date modified	Nov 5, 2021 12:32 PM
Rule-Fired Tracking	true
Conditional	if
Valid	valid
Conditions:	
Rule_In_OP = 'Div'	
Actions:	
Rule_Out_OP2 =Rule_Out_OP2*(-1)	

Variables

Variables	Data Type	Input	Output	Initial Value	Description	Length
Rule_In _OP	Character	True	False			
Rule_In _OP1	Decimal	True	False		OP1	
Rule_In _OP2	Decimal	True	False		OP2	
Rule_Out _MulDiv_ Sign	Character	False	True			
Rule_Out _OP1	Decimal	False	True			
Rule_Out _OP2	Decimal	False	True			