

Home Menu > Operations

The creation or modification screens are similar, they list all the properties of the function. In the case of a standard function, the properties can be viewed, but not modified.



The easiest way to write a function is to duplicate a standard function and adapt it.

Enter an operation

Operation type	<input type="text"/>	
Operation name	<input type="text"/>	
Outcoming type	<input type="text"/>	
Parameters type	<input type="text"/>	
Add...	<input type="button" value="Change..."/>	<input type="button" value="Delete"/>
Symbol	<input type="text"/>	
Description	<input type="text"/>	
Display	<input type="text"/>	
Add...	<input type="button" value="Change..."/>	<input type="button" value="Delete"/>
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>

Types of Operation

- Manipulation of character strings, e.g. replacing a character.
- Manipulation of date, for example adding a number of days.
- Manipulation of numeric data, e.g. obtaining the absolute value of a number.
- Conversion operation, e.g. IfThenElse.
- Grouping operation, for example, the average.

Operation name

Returned Type

- String of Character
- Digital
- Date

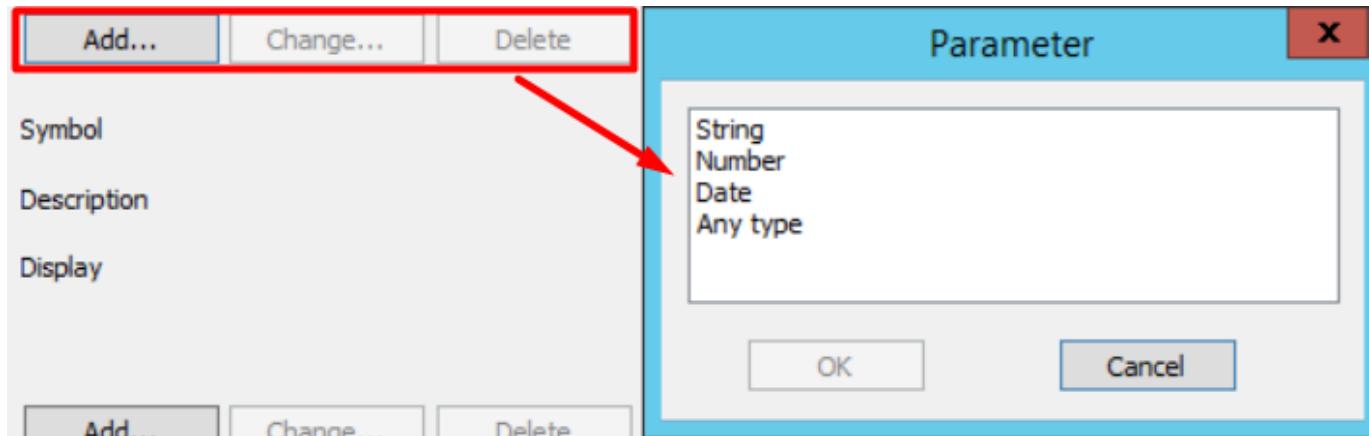
Some operations (for example, grouping operations) can return different types of data depending on

the type of parameters given to them. For example:

- Min(<Date>) \Rightarrow <Date>
- Min(<Digital>) \Rightarrow Digital

This can be done by defining a returned type identical to the first or last parameter entered.

Parameter type



There is no limitation on the number of parameters. Each parameter can be of 3 types:

1. String of characters
2. Digital Numérique
3. Date

Some operations can use different types of parameters (e.g. grouping operations). In this case, it is possible to specify that the parameter in question can correspond to "Any type".



Some operations may not have an input parameter (e.g. DateCur).

Symbol

This is the operation ID, as you will see it in Designer when you add an operation in the report.

Description

Appears alongside the operation ID when adding an operation.

Preview

The preview is used (for example) in the query summary to display the operation and the parameters it uses. The preview can contain sequences of 3 # (###) which will be replaced by the contents of the parameters (in the order in which they were entered at the operation definition level).

Syntax

For each operation, it is possible to define syntaxes for several types of databases.



When creating a query, the user only sees the operations that have a syntax for the database used by the query.

If the syntax is the same for all database types, it is possible to define it only once by selecting **Common to all databases**.

Database Type	Syntax Definition
Base de données Oracle 8 et inférieure	LENGTH([Param1])
Base de données Oracle 9 et supérieure	LENGTH([Param1])
Base de données SQL Server	LEN([Param1])
Fichiers Texte	Len([Param1])

By selecting a syntax line and then clicking on **Modify...**, you open the input screen itself.

MS SQL Server database [Param]

Add... Change... Delete

Syntax

Common to all databases
DB2/400 database
DB2/Windows database
MS Access database
MS SQL Server database
MySQL database
Oracle database 9 and greater
Oracle Database version 8 and lower
Text file

Param.

OK Cancel

Each input parameter of the operation is referenced by a sequence of 3 # (###) followed by the order of appearance of the parameter in the list of input parameters (Ex: ###1, ###2, etc...).



A parameter can appear several times in a syntax.

User file update

OPManage

OPMANAGE Home

File Edit Operations

Save Update user file

Cut Copy Paste Add Change Cancel Delete

Operation type	Name
Convert function	IfThen
Convert function	IfThen<
Convert function	IfThen<=
Convert function	IfThen<=>
Convert function	IfThen<>
Convert function	IfThen>
Convert function	IfThen>=
Convert function	IfThenDiff
Convert function	IfThenisNull
Convert function	JDEConversionUOM
Convert function	NumToString
Convert function	ReplaceNull
Convert function	StringToNum
Data function	AddDollar

Changes to functions are saved in a temporary file. They will be visible in Vigilens only after having updated the user file ("File \Update user file" menu).

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