

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.

The screenshot shows a dialog box titled "Saisie d'une opération". It contains the following fields and controls:

- Type d'opération:** A dropdown menu set to "Manipulation de dates".
- Nom de l'opération:** A text input field containing "DateDiffs".
- Type retourné:** A dropdown menu set to "Numérique".
- Type des paramètres:** A text area containing "Paramètre N° 1 : Date" and "Paramètre N° 2 : Date". Below it are buttons for "Ajouter...", "Modifier...", and "Supprimer".
- Symbole:** A text input field containing "DateDiff(Date1, Date2)".
- Description:** An empty text input field.
- Aperçu:** A text input field containing "DateDiff(###, ###)".
- Bottom section:** A list of database types and their corresponding functions:

Base de données Access	INT([Param 1]-[Param2])
Base de données DB2/400	DAYS([Param 1])-DAYS([Param 2])
Base de données DB2/Windows	DAYS([Param 1])-DAYS([Param 2])
Base de données MySQL	TO_DAYS([Param 1])-TO_DAYS([Param 2])
Base de données Oracle 8 et inférieures	ROUND(TO_DATE([Param 1]) - TO_DATE([Param 2]), 'DD')

 Below this list are buttons for "Ajouter...", "Modifier...", and "Supprimer". At the bottom of the dialog are "OK" and "Annuler" buttons.

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

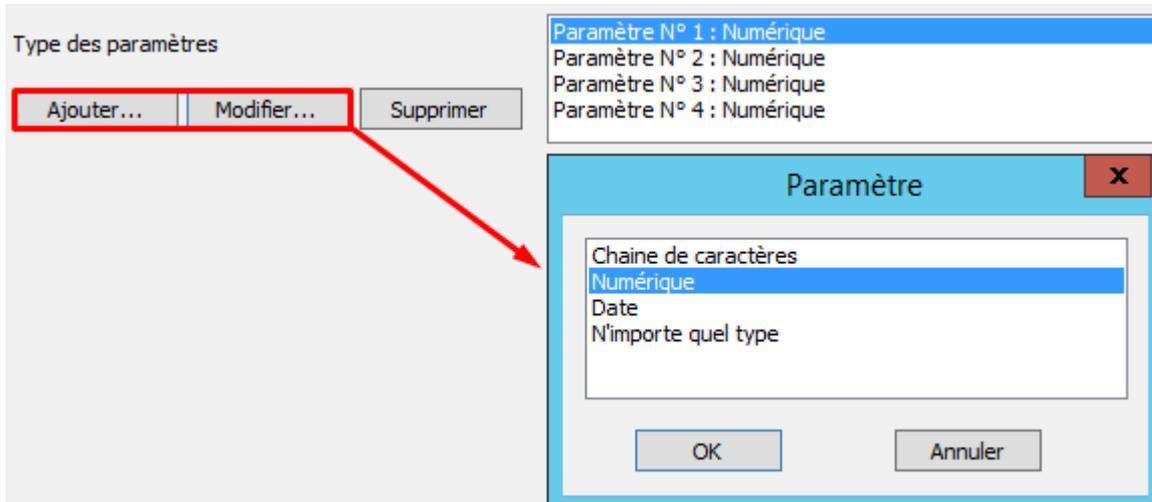
- String of Character
- Digital
- Date

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>) ⇒ <Date>
- Min(<Digital>) ⇒ 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

Description

Preview

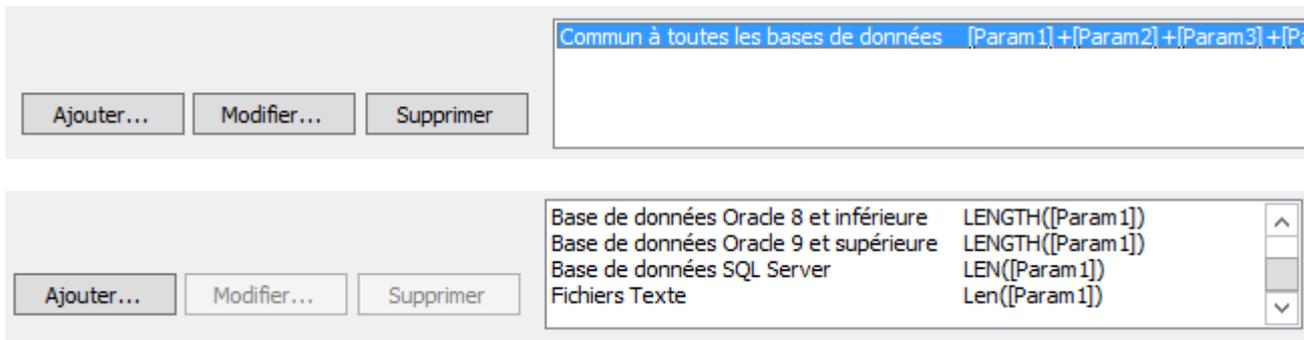
Syntax

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

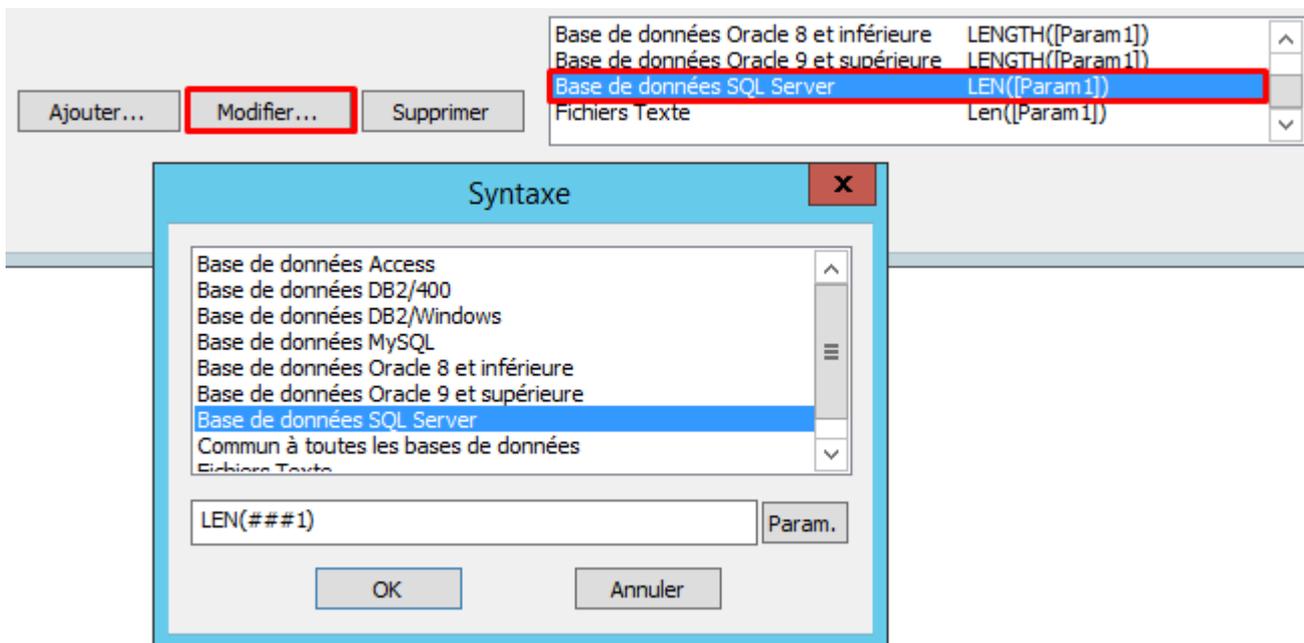


When creating a query, the user only sees the operations that have a syntax for the database used by the query.

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



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

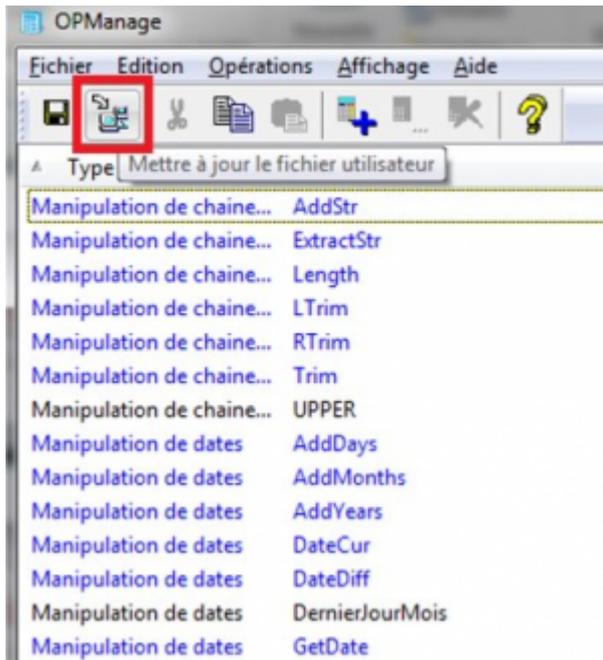


Each input parameter of the operation is referenced by a sequence of 3 # (###) followed by the order of appearance of the parameter in the list of input parameters (Ex: ###1, ###2, etc...).



A parameter can appear several times in a syntax.

User file update



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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