Procedure CALC_TABLE

1 Goal

To handle the data of tables in the manner of a spreadsheet.

The order makes it possible to carry out operations on the data of the tables. The following operations are currently available:

- Concaténer/To combine two tables,
- To apply a formula,
- To re-elect parameters,
- To filter the lines according to certain criteria,
- To extract certain columns from a table,
- To order the lines,
- To add lines or columns,
- To add information on the table itself.

Product a structure of data table.
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4 Examples
2 Syntax

= CALC_TABLE (  
  ◊ reuse = ,            [table]
  ◆ TABLE = matable,   [table]

  # Continuation of the actions to be carried out (in the order)
  ◆ ACTION = _F (  
    ◆ OPERATION = / 'COMB',
    / 'OPER',
    / 'RE-ELECTS',
    / 'FILTER',
    / 'EXTR',
    / 'TRI',
    / 'AJOUT_LIGNE',
    / 'AJOUT_COLONNE',
    / 'REMOVES',
    / 'UNIQUE',
    / 'STATISTICS',
    / 'CALCUL',

  # 1. Combination of tables ( OPERATION=' COMB' ) :
    ◆ TABLE = table,            [table]
    ◆ NOM_PARA = will l_para,
   [l_Kn]
    ◆ RESTRICTED = 'NOT',   [DEFECT]
    ◆ FORMAT_R = 'YES',     [KN]

  # 2. To apply a formula ( OPERATION=' OPER' ) :
    ◆ FORMULA = formula,       [formula]
    ◆ NOM_PARA = para,         [KN]
    ◆ NOM_COLONNE = collars,   [l_Kn]

  # 3. To re-elect parameters of a table ( OPERATION=' RENOMME' ) :
    ◆ NOM_PARA = [old name, new name],  [l_Kn]

  # 4. To filter lines ( OPERATION=' FILTRE' ) :
    ◆ NOM_PARA = para,         [KN]
    ◆ / CRIT_COMP = / 'EQ',    [DEFECT]
    / '',
    / 'LT',
    / 'WP',
    / 'IT',
    / 'GE',
    ◆ / VALE_I = ival,         [I]
    / VALE_K = kval,           [KN]
    / VALE = rval,            [R]
    / VALE_C = cval,          [C]
    ◆ | PRECISION = / prec,   [R8]
    / 1.0D-3,               [DEFECT]
    | CRITERION = / 'RELATIF', [DEFECT]
    | 'ABSOLUTE',
    ◆ / CRIT_COMP = / 'REGEXP',
    ◆ VALE_K = kval,         [KN]
# 5. To extract certain columns ( OPERATION=' EXTR' ) :
  ♦ NOM_PARA = will l_para,

# 6. To order the lines according to the values of a parameter ( OPERATION=' TRI' ) :
  ♦ NOM_PARA = will lpara,
  ◊ ORDER = / 'GROWING',
  ◊ ORDER = / 'DECREASING',

# 7. To add a line to a table ( OPERATION=' AJOUT_LIGNE' ) :
  ♦ NOM_PARA = will lpara,
  ♦ VALE = lvale,

# 8. To add constant columns to a table ( OPERATION=' AJOUT_COLONNE' ) :
  ♦ NOM_PARA = will lpara,
  ◊ / VALE = lvale,
  ◊ / VALE_COLUMN = lval_collar,

# 9. To remove columns of a table ( OPERATION=' SUPPRIME' ) :
  ♦ NOM_PARA = will lpara,

# 10. To remove doubled blooms of the columns of a table
( OPERATION='SINGLE' ) :
  ♦ NOM_PARA = will lpara,
  ◊ FORMAT_R = fmt ,

# 11. To add statistics in the table ( OPERATION=' STATISTICS ' )

# 12. To apply simple calculations for columns ( OPERATION='CALCULATION' ) :
  ♦ NOM_PARA = will lpara,
  ◊ TYPE _ CALCULATION =/ 'MAXI',
  ◊ TYPE _ CALCULATION =/ 'MINI',
  ◊ TYPE _ CALCULATION =/ 'SOMM',
  ◊ TYPE _ CALCULATION =/ 'MOY',
  ◊ TYPE _ CALCULATION =/ 'MAXI_ABS',
  ◊ TYPE _ CALCULATION =/ 'MINI_ABS',
  ◊ TYPE _ CALCULATION =/ 'SOMM_ABS',
  ◊ TITLE = title
  ◊ INFORMATION =/ 1,
  ◊ INFORMATION =/ 2,
3 Operands

3.1 Operand TABLE

   TABLE = matable

   Name of the initial table on which one will carry out handling.

3.2 Operand ACTION

   ACTION = ( \_F (OPERATION=' xxx',...),
               \_F (OPERATION=' yyy',...),
               ...
             )

   The “actions” are carried out one after the other. The operation ‘yyy’ takes the table in the state where the operation ‘xxx’ left.

   It is definitely more performing to repeat the keyword factor ACTION to do as many successive calls to the order CALC_TABLE.

3.3 OPERATION = ‘COMB’ : concaténer/to combine two tables

   The operation COMB concaténer allows, to combine two tables between them, with seam on a common parameter list.

3.3.1 Operand TABLE

   TABLE = table

   Name of the table whose values must come to overload and/or enrich the initial table.

3.3.2 Operand NOM_PARA

   NOM_PARA = will l_para

   Name of the parameters whose values must be identical in the two tables.

3.3.3 Operand FORMAT_R

   It is about a format which will be used before comparing two real numbers in order to determine if they are identical or not. Let us note that in the table, one recovers the nonround value (second table).

3.3.4 Operand RESTRICTED

   RESTRICTED = ‘YES’ or ‘NOT’

   Example of the combination of two tables:
   tab_resu=CALC_TABLE (TABLE=tab1,
   ACTION=_F (OPERATION=' COMB',
               TABLE=tab2,
               NOM_PARA= ('ABSC_CURV', 'NODE'),
               RESTREINT=' NON'))

   When ABSC_CURV and NODE are identical enters tab1 and tab2, one inserts the values of tab2 on the line of tab1 (for the other parameters common to the 2 tables, it is thus the value of tab2 who crushes that of tab1).

   If ABSC_CURV and/or NODE differ between tab1 and tab2, one adds the line of tab2 at the end of tab1. NOM_PARA acts like a primary key: if one does not find more once couple ( ABSC_CURV , NODE ), the line is added.

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The same operation with RESTREINT='OUI' product same lines when ABSC_CURV and NODE are identical. On the other hand, no line is added when the parameters differ.

3.4 **OPERATION = ‘OPER’** : To apply a formula

Allows to apply a formula whose variables are the parameters of the table and to insert the result in a new column.

3.4.1 **Operand FORMULA**

Name of the formula to be applied

3.4.2 **Operand NOM_PARA**

Name of the new column.

3.4.3 **Operand NOM_COLONNE**

This keyword makes it possible to use a formula of which the parameters are not parameters of the table.

For example, there is a formula which depends on INST. If one wants to evaluate it in the table, it is enough to specify NOM_COLONNE='INST_FIN'.

3.5 **OPERATION = ‘RE-ELECTS’** : To re-elect parameters of a table

The operation **RE-ELECT** allows to re-elect one or more parameters of a table.

3.5.1 **Operand NOM_PARA**

☆ NOM_PARA = will l_para

Name of the parameters: couples values (old name of the parameter, new name of the parameter)

3.6 **OPERATION = ‘FILTER’** : To filter the lines according to certain criteria

This keyword factor makes it possible to filter the lines of the table. For the use of this keyword to see the order IMPR_TABLE [U4.91.03].

3.7 **OPERATION = ‘EXTR’** : To extract certain columns from a table

The operation **EXTR** allows to extract certain columns from a table.

3.7.1 **Operand NOM_PARA**

☆ NOM_PARA = will l_para

Name of the parameters which one wants to extract.

3.8 **OPERATION = ‘TRI’** : To order the lines

The TRI operation makes it possible to order the lines according to the values of the parameters.

3.8.1 **Operand NOM_PARA**
3.8.2 Operand ORDER

- ORDER = / ‘GROWING’
  / ‘DECREASING’

This keyword is used to specify if one must use an order ascending or decreasing. By default, one sorts by ascending order.

The relations of order used are:

- the natural order for the entireties and realities,
- the alphabetical order for the texts and the names of concepts.

Note:

One cannot make use of a parameter complexes to classify the lines of a table.

For the parameters of the type NREUD (or MESH), the order is alphabetical because these parameters contain the name of the nodes (or of the meshes).

If one specifies:

```
TRI=_F (NOM_PARA= ('NODE', 'INST'), ORDRE= 'GROWING'),
```

One will sort the lines of the table in the alphabetical order of the nodes. If there exist several lines corresponding to a given node, it second sort criterion (INST) will be used to classify these lines.

3.9 OPERATION = ‘AJOUT_LIGNE’ : to add a line

The operation AJOUT_LIGNE allows to add a line to an existing table.

3.9.1 Operand NOM_PARA

- NOM_PARA = will lpara

Names of the parameters (names of the columns of the table) of the added line. One can define very well values only for certain columns of the table.

If a name of parameter does not exist in the table, he is added. Its type is given starting from the provided value.

3.9.2 Operand VALE

- VALE = lvale

List of the values for each parameter of NOM_PARA. The type of the values must be compatible with the types of the columns of the table.

VALE can contain heterogeneous values among entirety, reality, character string. The type must be in conformity with the type of the parameter of the table.

The first value corresponds to the first parameter given in NOM_PARA, the second value with the second parameter, etc.

Lists NOM_PARA and VALE thus have the same cardinal.

3.10 OPERATION = ‘AJOUT_COLONNE’ : to add a column

The operation AJOUT_COLONNE allows to add one or more columns constants (identical value for all the lines, by using the keyword VALE), or, only one column with distinct values (by using the keyword VALE_COLONNE).
3.10.1 Operand NOM_PARA

- **NOM_PARA = will lpara**
  Names of the parameters, names of the columns added to the table. None of these parameters must be already present in the table.
  One should provide only one parameter if one uses VALE_COLONNE.

3.10.2 Operand VALE

- **VALE = lvale**
  List of the values of each column.
  VALE can contain heterogeneous values among entirety, reality, character string. The type associated with the parameter is given starting from this value.
  The first value corresponds to the first parameter given in NOM_PARA, the second value with the second parameter, etc.
  Lists NOM_PARA and VALE thus have the same cardinal.

3.10.3 Operand VALE_COLUMN

- **VALE_COLUMN = lval_collar**
  List of the values lines of column added.
  The type of the provided values can be entirety, reality, chain characters. All the values must be in the same way standard.
  The values are added on the lines such as they are ordered at the time of the addition. It can there have added-values more or less than lines in the table. Either the column will be longer than the initial table, or it will contain empty values.

3.11 OPERATION = ‘REMOVES’ : to remove columns

The operation REMOVE allows to remove one or more columns of an existing table.

3.11.1 Operand NOM_PARA

- **NOM_PARA = will lpara**
  Names of the parameters, names of the columns to be removed in the table.

3.12 OPERATION = ‘SINGLE` : removal of the doubled blooms

The operation SINGLE allows to remove lines in doubled bloom in a table.

3.12.1 Operand NOM_PARA

- **NOM_PARA = will lpara**
  Names of columns in which one seeks the doubled blooms. Two lines are known as in doubled bloom if all these parameters are identical (to the format of realities close if necessary, to see FORMAT_R).

3.13 OPERATION = ‘STATISTICS` 

The operation STATISTICS allows to add information on the table itself.
The added columns are named STAT_NOM and STAT_VALE. They contain respectively the name of the parameter and its value.
The added elementary statistics are: the number of lines (named NB_LIGNES), the number of columns (NB_COLONNES) and the number of blank cells (NB_VIDE).

3.13.1 Operand TITLE

- **TITLE = tit**
Title of the produced table. When this one is not provided, the title of the table as starter is, according to the operations, supplemented.

3.13.2 Operand INFORMATION

◊ INFORMATION = inf

Print in the file “message” of the additional information if inf=2. Nothing occurs if inf=1.

3.14 OPERATION = ‘CALCULATION’

The operation CALCULATION allows simple calculations for columns with real or whole variables in a table.

In the presence of reuse, a column with the name TYPE_CALCUL is added in the table. For each TYPE_CALCUL, a line is added with computed values to the required columns.

In absence of reuse, a new table is created only with the columns to calculate as well as a column of TYPE_CALCUL. Each line corresponds to a kind of calculation.

3.14.1 Operand NOM_PARA

◊ NOM_PARA = will lpara

Names of the parameters, names of the columns with to apply calculations in the table.

3.14.2 Operand TYPE_CALCUL

◊ TYPE_CALCULATION = / ‘MAXI’,
    / ‘MINI’,
    / ‘SOMM’,
    / ‘MOY’,
    / ‘MAXI_ABS’,
    / ‘MINI_ABS’,
    / ‘SOMM_ABS’,

Type of calculation to be applied to the columns. It is possible to choose several types of calculation.

Choice of the types of calculation: ‘MAXI’ for the maximum in the column, ‘MINI’ for minimum in the column, ‘SOMM’ for nap in the column, ‘MOY’ for average in the column, ‘MAXI_ABS’ for maximum of the absolute variables in the column, ‘MINI_ABS’ for minimum of the absolute variables in the column, ‘SOMM_ABS’ for nap of the absolute variables in the column.
4 Examples

Table `TB1`

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>Z</th>
<th>NODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2.0</td>
<td>4.5</td>
<td>NO1</td>
</tr>
<tr>
<td>1</td>
<td>4.0</td>
<td>17.5</td>
<td>N03</td>
</tr>
<tr>
<td>2</td>
<td>17.5</td>
<td>9.0</td>
<td>N06</td>
</tr>
</tbody>
</table>

Table `TB2`

<table>
<thead>
<tr>
<th>NR</th>
<th>X</th>
<th>Z</th>
<th>NODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.0</td>
<td>2.5</td>
<td>NO1</td>
</tr>
<tr>
<td>3</td>
<td>4.0</td>
<td>5.5</td>
<td>N031</td>
</tr>
<tr>
<td>4</td>
<td>17.5</td>
<td>20.5</td>
<td>N062</td>
</tr>
<tr>
<td>6</td>
<td>5.0</td>
<td>8.0</td>
<td>N013</td>
</tr>
</tbody>
</table>

```plaintext
#--- COMBINATION
TB3=CALC_TABLE (TABLE=TB1,
ACTION =_F (OPERATION=' COMB',
    TABLE  = TB2, NOM_PARA=' NOEUD'))
```

Contents of the table TB3 is:

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>Z</th>
<th>NODE</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.00000E+00</td>
<td>2.50000E+00</td>
<td>N01</td>
<td>2.00000E+00</td>
</tr>
<tr>
<td>1</td>
<td>4.00000E+00</td>
<td>1.75000E+01</td>
<td>N03</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>1.75000E+01</td>
<td>9.00000E+00</td>
<td>N06</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>-</td>
<td>5.50000E+00</td>
<td>N031</td>
<td>4.00000E+00</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>2.05000E+01</td>
<td>N062</td>
<td>1.75000E+01</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>8.00000E+00</td>
<td>N013</td>
<td>5.00000E+00</td>
</tr>
</tbody>
</table>

```plaintext
#--- FORMULA
DNOR=FORMULE (NOM_PARA = ('X', 'Z'),
    VALE = 'sqrt (X*X+Z*Z)')
```

TB3=CALC_TABLE (TABLE = TB3,
reuse = TB3,
ACTION =_F (OPERATION=' OPER',
    FORMULE=DNOR, NOM_PARA=' NOR_COOR'))

Contents of the table TB3 is:

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>Z</th>
<th>NODE</th>
<th>X</th>
<th>NOR_COOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.00000E+00</td>
<td>2.50000E+00</td>
<td>N01</td>
<td>2.00000E+00</td>
<td>3.20156E+00</td>
</tr>
<tr>
<td>1</td>
<td>4.00000E+00</td>
<td>1.75000E+01</td>
<td>N03</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>1.75000E+01</td>
<td>9.00000E+00</td>
<td>N06</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>-</td>
<td>5.50000E+00</td>
<td>N031</td>
<td>4.00000E+00</td>
<td>6.80074E+00</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>2.05000E+01</td>
<td>N062</td>
<td>1.75000E+01</td>
<td>2.69537E+01</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>8.00000E+00</td>
<td>N013</td>
<td>5.00000E+00</td>
<td>9.43398E+00</td>
</tr>
</tbody>
</table>

```plaintext
#--- TO RE-ELECT
TB3=CALC_TABLE (TABLE = TB3,
reuse = TB3,
ACTION=_F (OPERATION=' RENOMME',
```

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Contents of the table TB3 is:

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>Z</th>
<th>NODE</th>
<th>X</th>
<th>NORM_XZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.00000E+00</td>
<td>2.50000E+00</td>
<td>N01</td>
<td>2.00000E+00</td>
<td>3.20156E+00</td>
</tr>
<tr>
<td>1</td>
<td>4.00000E+00</td>
<td>1.75000E+01</td>
<td>N03</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>1.75000E+01</td>
<td>9.00000E+00</td>
<td>N06</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>-</td>
<td>5.50000E+00</td>
<td>N031</td>
<td>4.00000E+00</td>
<td>6.80074E+00</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>2.05000E+01</td>
<td>N062</td>
<td>1.75000E+01</td>
<td>2.69537E+01</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>8.00000E+00</td>
<td>N013</td>
<td>5.00000E+00</td>
<td>9.43398E+00</td>
</tr>
</tbody>
</table>

--- FILTER

TB4=CALC_TABLE (TABLE = TB3, 
ACTION = _F (OPERATION=' FILTRE', 
NOM_PARA=' NORM_XZ', CRIT_COMP=' LE', VALE=30.))

Contents of the table TB4 is:

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>Z</th>
<th>NODE</th>
<th>X</th>
<th>NORM_XZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.00000E+00</td>
<td>2.50000E+00</td>
<td>N01</td>
<td>2.00000E+00</td>
<td>3.20156E+00</td>
</tr>
<tr>
<td>3</td>
<td>-</td>
<td>5.50000E+00</td>
<td>N031</td>
<td>4.00000E+00</td>
<td>6.80074E+00</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>2.05000E+01</td>
<td>N062</td>
<td>1.75000E+01</td>
<td>2.69537E+01</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>8.00000E+00</td>
<td>N013</td>
<td>5.00000E+00</td>
<td>9.43398E+00</td>
</tr>
</tbody>
</table>

--- EXTRACTION

TB3=CALC_TABLE (TABLE = TB3, reuse =TB3, 
ACTION = _F (OPERATION=' EXTR', 
NOM_PARA= ('NODE', 'X', 'Z', 'NORM_XZ')))  

Contents of the table TB3 is:

<table>
<thead>
<tr>
<th>NODE</th>
<th>X</th>
<th>Z</th>
<th>NORM_XZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>N01</td>
<td>2.00000E+00</td>
<td>2.50000E+00</td>
<td>3.20156E+00</td>
</tr>
<tr>
<td>N03</td>
<td>-</td>
<td>1.75000E+01</td>
<td>-</td>
</tr>
<tr>
<td>N06</td>
<td>-</td>
<td>9.00000E+00</td>
<td>-</td>
</tr>
<tr>
<td>N031</td>
<td>4.00000E+00</td>
<td>5.50000E+00</td>
<td>6.80074E+00</td>
</tr>
<tr>
<td>N062</td>
<td>1.75000E+01</td>
<td>2.05000E+01</td>
<td>2.69537E+01</td>
</tr>
<tr>
<td>N013</td>
<td>5.00000E+00</td>
<td>8.00000E+00</td>
<td>9.43398E+00</td>
</tr>
</tbody>
</table>

--- SORTING

TB3=CALC_TABLE (TABLE = TB3, reuse=TB3, 
ACTION = _F (OPERATION=' TRI', 
NOM_PARA= 'NORM_XZ', ORDRE=' DECROISSANT'))

Contents of the table TB3 is:

<table>
<thead>
<tr>
<th>NODE</th>
<th>X</th>
<th>Z</th>
<th>NORM_XZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>N062</td>
<td>1.75000E+01</td>
<td>2.05000E+01</td>
<td>2.69537E+01</td>
</tr>
<tr>
<td>N013</td>
<td>5.00000E+00</td>
<td>8.00000E+00</td>
<td>9.43398E+00</td>
</tr>
<tr>
<td>N031</td>
<td>4.00000E+00</td>
<td>5.50000E+00</td>
<td>6.80074E+00</td>
</tr>
<tr>
<td>N01</td>
<td>2.00000E+00</td>
<td>2.50000E+00</td>
<td>3.20156E+00</td>
</tr>
<tr>
<td>N06</td>
<td>-</td>
<td>9.00000E+00</td>
<td>-</td>
</tr>
<tr>
<td>N03</td>
<td>-</td>
<td>1.75000E+01</td>
<td>-</td>
</tr>
</tbody>
</table>
#--- CALCULATION
TB1=CALC_TABLE (TABLE = TB1, reuse = TB1,
    ACTION = _F (OPERATION='CALCULATION',
                  NOM_PARA= ('NR','Y'),
                  TYPE_CALCUL= ('MAXIMUM', 'SOMM'),
    )
)

Contents of the table TB1 is:

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>Z</th>
<th>NODE</th>
<th>TYPE_CALCUL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2.0</td>
<td>4.5</td>
<td>N01</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>4.0</td>
<td>17.5</td>
<td>N03</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>17.5</td>
<td>9.0</td>
<td>N06</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>17.5</td>
<td>-</td>
<td>-</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>3</td>
<td>23.5</td>
<td>-</td>
<td>-</td>
<td>SOMM</td>
</tr>
</tbody>
</table>

TB1_NEW=CALC_TABLE (TABLE = TB1
    ACTION = _F (OPERATION='CALCULATION',
                  NOM_PARA= ('NR','Y'),
                  TYPE_CALCUL= ('MAXIMUM', 'SOMM'),
    )
)

Contents of the table TB1_NEW is:

<table>
<thead>
<tr>
<th>NR</th>
<th>Y</th>
<th>TYPE_CALCUL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>17.5</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>3</td>
<td>23.5</td>
<td>SOMM</td>
</tr>
</tbody>
</table>

Warning: The translation process used on this website is a "Machine Translation". It may be imprecise and inaccurate in whole or in part and is provided as a convenience.