

NRCASES

NRCASES returns the number of cases (of a parameter) in an object, Telitab\$ or solution

Syntax

NRCASES("ParAddress\$")

Arguments

- ParAddress\$ is the address of a parameter. Also look at telitab access

Remarks

- NRCASES is a very convenient way to check whether and/or how many parameter are available in a data set. When you place the parameter address between quote, [Quaestor](#) will only use it to check the number of cases and will not introduce the parameter in the solution. This is **very important** because in this way you are able to check for values and objects without having to introduce them (and as a result be asked to the user, which you might not want to happen)
- Parameters, objects and object attribute names used in the NRCASES argument should exist in the knowledge base, if not, an error message is displayed.
- See examples for the use all kinds of option

Examples

1 Number of cases

Determining the number of instances of a parameter or object:

NRCASES("") returns the number of cases in the current solution

NRCASES("B") returns the number of cases of parameter B in the current solution. B can be a VALUE, STRING or OBJECT

NRCASES("*B") returns the number of matrix cases of parameter B in the current solution. B can only be a VALUE

NRCASES("PROP.") returns the number of cases in object PROP

If any string parameter is followed by "." or by ".Par" its value is assumed to contain a Telitab set for which the same applies as for objects:

NRCASES("Telitab\$.") returns the number of cases in Telitab set being the current case value of Telitab\$.

NRCASES("PROP.D") returns the number of cases of parameter D in object PROP

NRCASES("Telitab\$.Par") returns the number of cases of parameter Par in Telitab set being the current case value of Telitab\$.

NRCASES("PROP.*D") returns the number of matrix cases of parameter D in object PROP

NRCASES("Telitab\$.*Par") returns the number of matrix cases of parameter Par in Telitab set being the current case value of Telitab\$.

Remarks

- With matrix cases we mean the number of different cases in the table. For instance, if you have a 3D space description, for each x value you have a table of y,z values. If you put this in a data set, you get columns of x, y and z values like this:

```
0
3  "x" "y" "z"
"1" 1  1  1
"2" 1  1  2
"3" 1  2  2
"4" 2  1  1
"5" 2  1  2
"6" 2  2  2
"7" 3  1  1
"8" 3  1  2
"9" 3  2  2
```

- If you ask for the number of matrix cases of x, you get 3 (and not 9), because there are 3 x-coordinates
- Nested parameter addresses like "PROP\$.OWDAT.KT" and "PROP\$.OWDAT\$.KT" are allowed
- Telitab\$ attribute names used in the NRCASES argument do not need to exist in the knowledge base. If they don't exist in Telitab\$, zero is returned as NRCASES.

2 Finding instance or case number of value

Next to determining the number of instances of a parameter or object, it is possible to determine the case/instance number of a parameter with a particular value:

NRCASES("ID\$=MainDiesel.2") returns the case number of ID\$ with value "MainDiesel.2" in the current solution. **Please note, this is case sensitive**

NRCASES("Components.ID\$=MainDiesel.2") returns the first case number of ID\$ in object/Telitab\$ Components with value "MainDiesel.2"

NRCASES("Components.ID\$=@MAINDIESEL.2") returns the first case number of ID\$ in object/Telitab\$ Components with value "MainDiesel.2", prefix "@" stands for equal

NRCASES("Components.ID\$=&DIESEL") returns the first case number of ID\$ in object/Telitab\$ Components contains the word "DIESEL", prefix "&" stands for contains

NRCASES("Components.Q=40.8") returns the first case number of which the value of Q in object/Telitab\$ Components equals 40.8, the rounded values (as presented in the workbase) are compared, no prefix possible

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