

# QUERY#

QUERY# returns a Telitab subset on the basis of a set of search criteria

## Syntax

QUERY#(Telitab\$, UnfoldPar\$, Arg\_1\$[:[ParLab\\_1\\$](#)], ..., Arg\_n\$[:[ParLab\\_n\\$](#)])

### Arguments

- Telitab\$ is a string expression containing/returning a Telitab set.
- Unfold/SortPar\$ is a name of parameter for which to unfold and subsequently sort a dataset. For expalation on unfold see also the UNFOLD#();
- Arg\_1\$[:[ParLab\\_1\\$](#)], ..., Arg\_n\$[:[ParLab\\_n\\$](#)] are the query arguments. These can be string parameters or string values.

## Remarks

1. Please note that the Unfold parameter may be "[NullString](#)" when unfolding is not necessary;
2. The query arguments are not required. When you use an unfold parameter and no query arguments the function is almost equal to the UNFOLD#() function. Only the modes of the UNFOLD#() function are missing;

## Examples

### Unfolding data

To unfold a Telitab set for a particular parameter implies that the record(s) containing this parameter are moved to the top of the hierarchy.

So if Telitab\_1\$ contains the dataset:

```
2
"MODELS"
{
0
-4 "1" "2" "3" "4"
"MODMAT$" "wood" "foam" "wood" "plywood"
"LPP" 112.30 133.80 98.60 145.00
"B" 17.80 21.50 16.42 22.40
"T" 7.65 9.20 6.70 9.40
}
"PROJECTS"
{
1
"CLIENT$" "YardX"
}
```

To explain the data:

you have two objects, MODELS and PROJECTS presented as list values in Telitab\_1\$ containing [TeLiTab](#)s themselves (with several parameters). LPP is part of the MODELS object ([TeLiTab](#)).

When you unfold Telitab\_1\$ dataset on parameter "LPP", you get:

```
1
"PROJECTS"
{
1
"CLIENT$" "YardX"
}
0
-4 "1" "2" "3" "4"
"MODMAT$" "wood" "foam" "wood" "plywood"
"LPP" 112.30 133.80 98.60 145.00
"B" 17.80 21.50 16.42 22.40
"T" 7.65 9.20 6.70 9.40
```

You see that PROJECT still is a separate object (and presented as a list value in Telitab\_1\$). All other data (which was part of the MODELS object) now is part of Telitab\_1\$ and thus a table in the [TeLiTab](#).

To unfold a Telitab set for a particular parameter implies that the record(s) containing this parameter are moved to the top of the hierarchy. If `UnfoldPar$ = "NullString"`, no unfolding is performed.

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### Query data

The list

`Arg_1$[:ParLab_1$],,,,Arg_n$[:ParLab_n$]`

contains a set of values or criteria for which a set of records has to be selected from the source data `Telitab$`.

Again we use `Telitab_1$` with the query:

```
DATASET$ = QUERY#(Telitab$, "LPP", ARG1$: "LPP", ARG2$: "T")
```

for `ARG1$ = "<140"` and `ARG2$ = ">7.5"` returns the following result:

```
1
"PROJECTS"
{
  1
  "CLIENT$" "YardX"
}
-4 "1" "2"
"MODMAT$" "wood" "foam"
"LPP" 112.30 132.80
"B" 17.80 21.50
"T" 7.65 9.20
```

You see that the result is both unfolded on

`"LPP"`

and queried on

`"<140": "LPP"`

and

`">7.5": "T"`

.

## Example knowledgebases

Please visit the forum topic: Select an item from a dataset for an example of [Functions overview](#) | [Attribute overview](#) | [Constants overview](#) | [Dimensions overview](#)

in combination with data in a dataset.

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