m_utl_get_col_type.sas File Reference

Utilities

Utility macro to obtain column type attribute from a table

Description

The macro is used to obtain the attribute type information from a given column in a table. The macro can be used to get the column type from within a data step, or standalone. The result information is directly given back from the macro.

Note

The SHOW_ERR parameter shows or suppresses possible warnings or errors in the log. The default for SHOW_ERR is value is N.

Note

In case of encrypted SAS datasets, the ENCRYPTKEY= parameter must be provided as part of the CREDS credentials string.

Autors

Paul Alexander Canals y Trocha (paul.canals@gmail.com)

Date

2020-09-23 00:00:00

Version

20.1.09

Link

https://github.com/paul-canals/toolbox

Parameters

Input	help	Parameter, if set (Help or ?) to print the Help information in the log. In all other cases this parameter should be left out from the macro call.
Input	table	Full LIBNAME.TABLENAME name of the or SAS dataset to get the column attribute information. The default value is: _NONE_.
Input	table_dsid	Parameter representing the SAS dataset or table identifier. The parameter contains the value of the table identifier when the table was already opened before calling this macro. The default value for TABLE_DSID is: 0.
Input	creds	Optional. Specifies the ENCRYPTKEY= parameter value if DATASET involves an encrypted dataset.
Input	col_name	Parameter to specify the column attribute name.
Input	col	Alias of the COL_NAME= parameter.
Input	show_err	Boolean [Y|N] parameter to show or hide warnings or errors in the log. The default value is: Y.
Input	debug	Boolean [Y|N] parameter to provide verbose mode information. The default value is: N.

Returns

- Type [CHAR|DATE|DATETIME|NUM|TIME] for a given column.

Calls

- m_utl_print_message.sas
- m_utl_print_mtrace.sas
- m_utl_varlist.sas

Usage

Example 1: Show help information:

```
%m_utl_get_col_type(?)
```

Example 2: Obtain column type information for Name column of the SASHELP.class table:

```
data WORK.result;
   Table="SASHELP.class";
   Column='Name';
   Type="%m_utl_get_col_type(table=SASHELP.class,col=Name,debug=Y)";
   output;
run;

proc print data=WORK.result noobs;
run;
```

Example 3: Obtain column type information for Prodtype column of the SASHELP.prdsale table:

```
data WORK.result;
   Table="SASHELP.prdsale";
   Column='Prodtype';
   Type="%m_utl_get_col_type(table=SASHELP.prdsale,col=Prodtype,debug=Y)";
   output;
run;

proc print data=WORK.result noobs;
run;
```

Example 4: Obtain column type information for Invioce column of the SASHELP.cars table:

```
data WORK.result;
   Table="SASHELP.cars";
   Column='Invoice';
   Type="%m_utl_get_col_type(table=SASHELP.cars,col=Invoice,debug=Y)";
   output;
run;

proc print data=WORK.result noobs;
run;
```

Copyright

Copyright 2008-2020 Paul Alexander Canals y Trocha.

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.