# m\_utl\_read\_hist\_data.sas File Reference

# **Utilities**

Utility macro to extract data from a historised SAS dataset

## **Description**

This macro can be used to extract data from a historised table or dataset using a combination of valid date and version number as historisation attributes. Unless given as a parameter value, the macro routine returns a selection of data for a given date using the maximum version number value related to that date.

#### Note

SAS Problem Note 2859: LOCK statement or function with LIST or QUERY options might report locks incorrectly:

http://support.sas.com/kb/2/859.html

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Version

21.1.02

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	in_tbl	Specifies the full LIBNAME.TABLENAME name of the source SAS dataset or database table. This parameter may contain a combination of data step style statement between brackets like keep=, drop= or rename=. The default value for IN_TBL is: _NONE
Input	intable	Alias of the IN_TBL= parameter.
Input	out_tbl	Specifies the full LIBNAME.TABLENAME name of the target SAS dataset or database table. The default value for OUT_TBL is: _NONE
Input	outtable	Alias of the OUT_TBL= parameter.
Input	where	Optional. Specifies a valid WHERE clause that selects observations from the IN_TBL SAS dataset. Using this argument subsets your data based on the criteria that you supply for the expression.
Input	valid_dt	Specifies the valid date selection for filtering the data content. The value is to be specified by using the following format: _DD.MM.YYYY
Input	datecol	Specifies the name of valid date selection column. The default value is: VALID_DT.
Input	version	Optional. Specifies the of the valid date selection for filtering the data content.
Input	verscol	Specifies the name of version selection column. The default value is: VERSION_NR.
Input	type_cd	Optional. Specifies the result type code selection for filtering the data content.
Input	typecol	Specifies the name of result type selection column. The default value is: RESULT_CD.
Input	timeout	Specifies the waiting time in seconds to wait until alock can be set on the input SAS dataset. The default value is: 300.
Input	debug	Boolean $[Y N]$ parameter to provide verbose mode information. The default value is: N.

## Returns

• Data selection from a historised SAS dataset input table.

# Calls

- m\_utl\_clr\_table\_lock.sas
- m\_utl\_print\_message.sas
- m\_utl\_print\_mtrace.sas
- m\_utl\_nlobs.sas
- m utl set table lock.sas

### Usage

#### Example 1: Show help information:

```
%m_utl_read_hist_data(?)
```

## Example 2: Read most actual data from a historised table WORK.class:

```
data WORK.class;
    set SASHELP.class;
    attrib LOAD_ID length=8 format=z8.; attrib LOAD_CD length=$32.;
    attrib VALID_DT length=8 format=ddmmyyp10.; attrib VERSION length=8 format=z5.;
    attrib LOAD_DTTM length=8 format=datetime20.;
    load_id = 1;
load_cd = '';
valid_dt = "30sep2017"d;
version = 1;
    load_dttm = datetime()-2000;
    output;
    load_id = 2;
load_cd = '';
valid_dt = "30sep2017"d;
version = 2;
    load_dttm = datetime()-1000;
    output;
    load_id = 3;
load_cd = '';
valid_dt = date();
version = 1;
    load_dttm = datetime();
   output;
run;
%m_utl_read_hist_data(
 intable = WORK.class (drop=Height Weight)
, out_tbl = WORK.students
, where = %str(Sex = 'F' and Age > 13)
  , valid_dt = 30.09.2017
 , verscol = version
, debug = Y
 , debug
    );
proc print data=WORK.students;
```

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