

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

## Utilities

Utility macro to extract data from a historised SAS dataset

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### 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 | typocol  | 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 a lock 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
);

proc print data=WORK.students;
run;
```

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