

# m\_utl\_get\_tbl\_constraints.sas File Reference

## Utilities

Utility macro to obtain constraint information on a given table

---

### Description

This macro works by using either the SAS dictionary tables or Oracle system tables for constraint information on the passed table and returns a list of constraints and their variables in the order in which those are listed by the constraint.

### 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	libnm	Parameter to specify the SAS library reference. The default value for LIBNM is: _NONE_.
Input	tblnm	Parameter to specify the SAS dataset or table. The default value for TBLNM is: _NONE_.
Input	creds	String containing the Oracle database credentials information. The following order of parameters is to be respected for the macro to work properly: user=, password=, path=
Input	print	Boolean [Y N] parameter to generate the output by using proc report steps with style HtmlBlue. The default value for PRINT is: N.
Input	debug	Boolean [Y N] parameter to provide verbose mode information. The default value is: N.

## Returns

- Returns all column constraint information on a given table.

## Calls

- [m\\_utl\\_chk\\_table\\_exist.sas](#)
- [m\\_utl\\_get\\_sashelp.sas](#)
- [m\\_utl\\_hash\\_lookup.sas](#)
- [m\\_utl\\_print\\_message.sas](#)
- [m\\_utl\\_print\\_mtrace.sas](#)

## Usage

Example 1: Show help information:

```
%m_utl_get_tbl_constraints(?)
```

For the next examples create a table with a primary key constraint:

```
proc sql noprint feedback stimer;
  CREATE TABLE WORK.BANKKONTO (
    MANDANT_ID          VARCHAR(8)          label='Mandant Identifier'
  , PARTNER_ID          NUMERIC(8)          label='Geschäftspartner Identifier'
  , KONTO_ID            NUMERIC(8)          label='Konto Identifier'
  , KONTO_WAEHRUNG_CD   VARCHAR(3)          label='Geschäftswährung'
  , KONTO_TYPE_CD       VARCHAR(32)         label='Konto Type Code'
  , SALDO_AMT           NUMERIC(8)          format=19.2 label='Saldo Betrag'
  , LOAD_DTTM           NUMERIC(20)         format=datetime20. label='Ladezeitstempel'
  , CONSTRAINT PRIM_KEY PRIMARY KEY (MANDANT_ID, KONTO_ID, LOAD_DTTM)
  );
quit;
```

Example 2: Obtain the constraint information from table bankkonto:

```
%m_utl_get_tbl_constraints(
  libnm = WORK
  , tblnm = bankkonto
  , print = Y
  , debug = Y
  );
```

## **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/>>.