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%macro mw_sentence_case(termfile =
                      ,indata =
                                    ,outdata=&indata.
                      ,var =
                                    ,rsvdterm =
                                    ,listchar = @
                                    ,tcase = NO
                                    ,debug = YES
                      ,help = YES
) / store source des='V1.0.0.3';

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*****;

%*      MACRO NAME:  mw_sentence_case
;
;%*
%*      SAS VERSION:  SAS V9.3, SAS V9.4 on SAS grid (Windows 10)
;
;%*
%*      PURPOSE:  Parent macro that calls MW_CREATE_TERM_LIST, MW_MARK_TERMS,
and MW_ANALYZE_SENTENCE. ;
;%*
%*      USAGE NOTES:  A reserved term list must be present. ;
;%*
;
;%*      INPUT PARAMETERS:
;
;%*
%*      TERMFILE = An absolute path to the reserved term list. ;
;%*
%*                                (Required, (NO DEFAULT)) ;
;%*
;%*      INDATA  = Data set with string variable present. ;
;%*
;%*      OUTDATA = The resulting data set post sentence casing. (default value
is the input data set). ;
;%*      VAR = The string variable name in INDATA to sentence case. ;
;%*
;%*      RSVDTERM = Macro variable containing list of reserved terms. ;
;%*
;%*      LISTCHAR = The special character that will be used to identify reserved
terms. (Default value is @) ;
;%*
;%*      TCASE = If set to Y(es), then words with at least four bytes will be

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proper case. (Default value is NO) ;  
%* HELP = set to Y(es) to output helpful hints to the log (Default  
= YES)  
;  
%* DEBUG = set to Y(es) to save all intermediate datasets and to  
turn on mprint. Set to NO to delete all intermediate datasets and to not ;  
%* turn on mprint (maintains original  
option setting) (Default = YES)  
;  
%* ;  
;%* OUTPUT FILES: NONE ;  
;%* ;  
;%* AUTHOR: (b) (6) ;  
;%* DATE CREATED: 31Dec2015 ;  
;%* ;  
;%* MODIFICATION LOG:  
;%* ;  
%*****  
%*****  
;%* DATE INITIALS MODIFICATION DESCRIPTION ;  
;%* 14FEB2019 (b) (6) Added Return Codes, debug macros, and parameter  
checks. ;  
;%* 21MAR2019 (b) (6) Add parameter and test for RSVDTERM, macro  
variable for _help and _debug, update header.  
;  
;%* 26MAR2019 (b) (6) Add code to re-set RSVDTERM parameter value. ;  
;%* 08APR2019 (b) (6) Add LISTCHAR parameter. ;  
;%* 31MAY2019 (b) (6) Add TCASE parameter. ;  
;%* 19JUN2019 (b) (6) Modify TCASE so that it can take a value of Y(es)  
or N(o). ;  
;%* 02OCT2019 (b) (6) Per PM, list version as Version 1.0.0.0. Remove  
references to Windows 7. ;
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%* (c) 2019 PPD

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%* All Rights Reserved.

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%PUT ----- ;
%PUT INFO: (&SYSMACRONAME) ;
%PUT INFO: Version 1.0.0.3 ;
%PUT START;
%PUT ----- ;

*****;
*** Parameter checks. **;
*****;

%global &sysmacroname._rc;
%let &sysmacroname._rc = 0;

*** RETURN CODES
0 = ran without error
1 = rsvdterm parameter is null and will be set to the default value of rsvdtrms
2 = rsvdterm parameter has a value of rsvdterm and will be re-set to rsvdtrms
3 = Macro is being executed by encoding other than WLATIN1
;

*****;
*** Check if ARTZ defaults has DEBUG and HELP. **;
*****;

%global _debug _help _listchar _tcase;

%let _debug = &debug;
%let _help = &help;
%let _listchar = &listchar;

%if %upcase(&tcase) = Y or %upcase(&tcase) = YES %then %do;
  %let _tcase = YES;
%end;
%else %if %upcase(&tcase) = N or %upcase(&tcase) = NO %then %do;
  %let _tcase = NO;
%end;

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%mu_help_debug;

*****;
*** Get list of datasets in the work library. **;
*****;

%md_workinfo(
    debug      = &debug
 ,_workdata   = WORK_DATASETS_DATA
 ,_workview    = WORK_DATASETS_VIEW
 ,_mprinttoggle = mprint_setting
) *;

*****;
*** Check value of RSVDTERM parameter.      **;
*****;

%if %sysevalf(%superq(rsvdterm)=,boolean) %then %do;

    %let rsvdterm = rsvdtrms;

    %put
-----
-----;
    %put ALERT_I: &SYSMACRONAME - RSVDTERM parameter is null. ;
    %put ALERT_I: &SYSMACRONAME - RSVDTERM will be set to the;
    %put ALERT_I: &SYSMACRONAME - name, RSVDTRMS;
    %let &sysmacroname._rc = 1;
    %put INFO: &sysmacroname._RC = &&&sysmacroname._RC;
    %put
-----
-----;

%end;

%else %if %upcase(&rsvdterm) = RSVDTERM %then %do;

    %let rsvdterm = rsvdtrms;

    %put
-----
-----;
    %put ALERT_I: &SYSMACRONAME - RSVDTERM parameter has a value;
    %put ALERT_I: &SYSMACRONAME - of RSVDTERM and will be re-set;
    %put ALERT_I: &SYSMACRONAME - to a value of RSVDTRMS;
    %let &sysmacroname._rc = 2;
    %put INFO: &sysmacroname._RC = &&&sysmacroname._RC;
    %put
-----
-----;

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%end;

%*****;
%** Check if REQUIRED parameters are populated **;
%*****;

%mu_check_req_parameters(
    parameters_to_check = termfile indata var
    ,help=no
);

%*****;
%** Check encoding Session
%*****;

%let session_encoding=%upcase(%sysfunc(getoption(encoding)));

%mu_checkrc(condition  = "&session_encoding." ^= "WLATIN1"
            ,setabort = Y
            ,rc       = 3
            ,rcprefix = MW_SENTENCE_CASE
            ,msg1     = Please note macro has not been fully validated
within &session_encoding.
            ,msg2           = INFO: MW_SENTENCE_CASE_RC = 3
);

%*****;
%** Start macro.
%*****;

%global &rsvdterm;

%mw_create_term_list(fileloc = &termfile.
                    ,outvar = &rsvdterm.
);

%mw_mark_terms(indata = &indata.
                ,outdata = &indata._1
                ,var = &var.
                ,listvar = &rsvdterm.
);

%mw_analyze_sentence(indata = &indata._1
                    ,outdata = &outdata.
                    ,var = &var.
);

%mend mw_sentence_case;

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