## **PROJECT**

## SCRIPT FOR CONCATENATING AND PROCESSING SAS VARIABLE WITH ONE TO MANY VALUES via SAS

Version 1.0

July 12, 2025

## Version History

Date	Version #	Description	Author
07/12/2025	1.0a	Final Version	Vincent Taylor

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The below macro **ConcatenateMulitValuePrompt** demonstrates the process for handling SAS macro variable that contains from 1 to many values. The values for each macro SAS variable are populated using the 'Filter' definition feature via Query Builder.

```
%global SubGroup Number ClassId PlanId LineOfBusiness;
%macro ConcatenateMultiValuePrompt (prompt= , dlm=%str( ), AllStr= );
%local i return;
% if "&&&prompt" = " ALLVALUES " %then
    % do:
     %let return=&AllStr;
  %end;
%else
    %do:
        %if &&&prompt. Count ge 2 %then
           %do;
                %let i=l;
               %let return=&&&prompt&i;
               %do i = 2 % to &&&prompt. Count;
                   %let return=&return&dlm&&&prompt&i;
               %end;
    %end:
     %else
        %do;
            %let return=&&&prompt;
        %end;
&return
%mend ConcatenateMultiValuePrompt;
/* invoke macro */
%let SubGroupNum List =
%ConcatenateMültiValuePrompt(prompt=SubGroup Number, dlm=%str(,),AllStr=All
SubGroup Number Values Selected);
%let ClassId List = %ConcatenateMultiValuePrompt(prompt=ClassId,dlm=%str(,),AllStr=All
Plan Id Values Selected);
%let Planld List = %ConcatenateMultiValuePrompt(prompt=PlanId,dlm=%str(,),AllStr=All Plan
Id Values Selected);
```

%let LobCode\_List = %ConcatenateMultiValuePrompt (prompt=LineOfBusiness, dlm=%str (,) ,AllStr=All Line of Business Values Selected);

**Note:** You can also define macro SAS variables such as Group\_Number and Enroll\_Date. The Enroll\_Date range would then be redefined as Enroll\_Date\_Min and Enroll\_Date\_Max indicating the date range period.

If there's a Group Name associated with Group\_Number the below macro can be used to capture the Group\_Name

```
%global Group_Name

%macro getgroupname;

proc sql noprint;
    select Group_Name
    into :group_name

from test.group_file    a
    where a.group_number in ("&group_number")
    ;
    quit;

%mend getgroupname;
```

The following macro demonstrates the process for handling and alerting users when no records are selected.

%global dsn exist numobs norecords Group\_nme;

%put &group name;

```
%macro datfnd;
%let dsn = dataset which will be used in the Proc Report step;
%let exist = no;
%let numobs = 0;
%if %sysfunc(exist(&dsn)) %then exist = Yes;
%if &exist = Yes %then
    %do;
        %let dsnId = %sysfunc(open(&dsn));
        %let dsobs = %sysfunc(attrn(&dsnId.,nobs)):
        %let rc = %sysfunc(close(&dsnId.)):
        %let numobs = &dsobs.;
   %end;
%if & numobs = 0 %then
    %do;
        %let NoRecord = &str(**** No Records Were Selected ****);
        %let Group Nme = &Group Number;
   %end;
```