**Macro Code:**

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| SAS DO LOOP | SAS CALL EXECUTE |
| **%macro** cond\_int\_ph\_wt(cond\_mvar=, num\_cond=, int\_mvar=, num\_int=);  %do j =**1** %to &condcnt. ;  %let cond = %scan(&cond\_mvar., &j , '~');  %put Condition = &cond. ;  %do i = **1** %to &intcnt. ;  %let single = %scan(&int\_mvar., &i , '~');  %put single = &single;  proc freq data=ptc\_ct\_da noprint ;  table spnsr\*&cond.\*&single.\*phases / missing out=\_\_&cond.\_&single.(where=(&single. ne " " and &cond. ne " " ) drop=percent) ;  run;  proc sql noprint ;  select count(&cond.) into: cond\_chk\_cnt  from \_\_&cond.\_&single.  ;  quit;  %if &cond\_chk\_cnt. > **0** %then %do;  data \_\_&cond.\_&single.;  length cond int phases $200.;  set \_\_&cond.\_&single.;  cond=&cond.;  INT=&single. ;  drop &cond. &single. ;  run;  %end;  %else %do;  proc datasets lib=work nolist;  delete \_\_&cond.\_&single.;  quit;  run;  %end;  %end;  %end;  **%mend** cond\_int\_ph\_wt;  %***cond\_int\_ph\_wt***(cond\_mvar=&ptc\_cond\_vars., num\_cond=&condcnt., int\_mvar=&ptc\_int\_vars., num\_int=&intcnt.); | **%macro** cond\_int\_adv(\_cond=, \_int=);  proc freq data=ptc\_ct\_da noprint;  table spnsr\*&\_cond.\*&\_int.\*phases / missing out=\_\_&\_cond.\_&\_int.(where=(&\_int. ne " " and &\_cond. ne " " ) drop=percent) ;  run;  proc sql noprint ;  select count(&\_cond.) into: cond\_chk\_cnt  from \_\_&\_cond.\_&\_int.  ;  quit;  %if &cond\_chk\_cnt. > **0** %then %do;  data \_\_&\_cond.\_&\_int.;  length cond int phases $200.;  set \_\_&\_cond.\_&\_int.;  cond=&\_cond.;  INT=&\_int. ;  drop &\_cond. &\_int. ;  run;  %end;  %else %do;  proc datasets lib=work nolist;  delete \_\_&\_cond.\_&\_int.;  quit;  run;  %end;  **%mend** cond\_int\_adv;  **data** \_null\_;  set cond\_int;    mac\_str = cats('%nrstr(%', macnm, '(\_cond=', cond, ', \_int=', int, '))');  call execute(mac\_str);  **run**; |

**Pre-processing required for macro to work:**

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| SAS DO Loop | SAS Call Execute |
| **proc** **sql** noprint ;  select distinct name into: ptc\_int\_vars separated by '~'  from ptc\_ct\_cont  where substr(name,**1**,**3**) = "PTC"  ;  %let intcnt = &sqlobs;  **quit**;  %put &ptc\_int\_vars &intcnt;  **proc** **sql** noprint ;  select distinct name into: ptc\_cond\_vars separated by '~'  from ptc\_ct\_cont  where substr(name,**1**,**5**) = "COND\_"  ;  %let condcnt = &sqlobs;  **quit**;  %put &ptc\_cond\_vars &condcnt; | **proc** **sql**;  create table cond\_int as  select a.name as cond, b.name as int, "cond\_int\_adv" as macnm  from ptc\_ct\_cont(where=(substr(name,**1**,**5**) = "COND\_")) as a, ptc\_ct\_cont(where=(substr(name,**1**,**3**) = "PTC")) as b  ;  **quit**; |