PROJECT

MID ATLANTIC STUDY
Respondent Data QC Document

Version 1.0

June 21, 2022

Version History

Date	Version #	Description	Author
06/21/2022	1.0a	Final Version	Vincent Taylor

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Introduction

This work request was submitted byElizabeth

1.1 Objectives

- Using previous and current month SAS MAS Respondent Datassts, created compare and freq PDF report.
- Deliver to the appropriate CS monthly output folder

1.2 System Description

System/Application Name	Data Analytics and Applied Science
Vice President RAD	Russell
Contractor RAD	Elizabeth
Contractor RAD	Vncent Taylor

1.3 Scope

Design a reporting tool to validate that the raw data looks as expected, checking items outside of day 2 spreadsheets. Each of the checks should be output to a PDF document that can be saved to a JIRA ticket showing evidence that the program was executed successfully. The RAD team should review the output and make sure the provided information is accurate.

1.4 Issues

None foreseen at this time.

1.5 Dependencies

N/A.

2 Execution

2.1 Base SAS via connection through Remote Desktop

3 Environment

3.1 Hardware

Laptop and Desktop work-stations

3.2 Servers and Input Datasets

Base SAS VPN

Inputs:
Prior Month: \\xxxxgroup.xxxx.com\dfs\AM\United States\US Public Affairs\0060\JOBS\KPMA\data\QMYR\Month\Respondent Level Data\CS Checks

Q# = Quarter of prior month
YR = Year of prior month
Month = Full name of month ie. March

- Above must be changed manually

Current Month: \\xxxxgroup.xxxx.com\dfs\AM\United States\US Public Affairs\0060\JOBS\KPMA\data\QMYR\Month\Respondent Level Data\CS Checks

Q# = Quarter of prior month
YR = Year of prior month
Month = Full name of month ie. April

- Above must be changed manually

Datasets:

Prior Month Datasets	Current Month Datasets
MTHYR_mpsq_MMYR_Final	MTHYR_mpsq_MMYR_Final
MTHYR_opt_MMYR	MTHYR_opt_MMYR
MTHYR_plr_MMYR	MTHYR_plr_MMYR

MTH = Month ie MAR
YR = Year ie 22

- Changed programmatically

3.3 Special Test Needs

Refer to Testing Case Selection

4 Release Criteria

- System testing, independent testing and user acceptance testing must be carried out successfully
- Testing of all requirement enhancements, if any in the current release, must be completed
- SAS Source Code

MAS Respondent Lvl Data Checks	Completed

Note: MAS Raw Data Compare program is used to create the compare / frequency PDS document. It will require little to no modifications in the future.

```
/* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* Author: Vincent Taylor                                                                    *
*                                                                                           *
* Revison Data: JUNE 2022                                                                   *
*                                                                                           *
* Description: Read the raw MAS dataset for current month and produce output               *
*              produce output reports using proc compare, freq and print                    *
*                                                                                           *
* INPUT:                                                                                    *
*                                                                                           *
* PVCS Revision History:                                                                    *
*-------------------------------------------------------------------------------------------*/

/*------------*/
/* Time Start */
/*------------*/
```

```
data _null_;
      time = time();
      call symput('Start',time);
run;

options validvarname=v7 source2 symbolgen mautosource mprint sasautos=(m) mlogic
mrecall;

title 'Define macro variables and macro to handle processing of prior month data';

%global begdate cc cyear cur_date devent mm PMONTH PMTH pyear pqtr pyy;

%macro pdate;

 data _null_;

 format hbegsearch date10. ;

 %let cur_date = %sysfunc(today(),date10.); /* Current System Date */

 hbegsearch = %sysfunc(intnx(month,"&cur_date"d,-2)); /* Go back 2 month to process
data */

 TODAY = hbegsearch;
 TODAYX = PUT(TODAY,YYMMDD10.);
 TODAYMM = SUBSTR(TODAYX,6,2);

 qtr1 = intnx('qtr',hbegsearch,0);
 qtr2 = qtr(qtr1);                          /* Return Current Quarter */
 call symput("PQTR",QTR2);

 hbegsearch = intnx('month',hbegsearch,0,'b');
 call symput("begdate",left(put(hbegsearch,date10.)));
 call symput("MM",TODAYMM);

run;

 %global cc pmonth pmth Pyr ;

 /*%global pmth yr ;*/

 data _null_;
  format bdate $9. cc $2. pyear $6. devent $4. month $3. mm $2. pmonth $9. qtr 1. yy
$2.;
  bdate = symget('begdate');

  cc ='20';
  yy = substr(bdate,8,2);
  month = substr(bdate,3,3);

  call symput("CC",CC);         /* Create Century macro variable */
  call symput("PYR",YY);         /* Create current year marco variable */
  call symput("PMTH",MONTH);    /* Create current short month name macro variable ie JAN
*/
  qtr = symget('PQTR');          /* Create current quarter macro variable */

  if month = 'JAN' then pmonth = 'January';
  if month = 'FEB' then pmonth = 'February';
  if month = 'MAR' then pmonth = 'March';
```

```
  if month = 'APR' then pmonth = 'April';
  if month = 'MAY' then pmonth = 'May';
  if month = 'JUN' then pmonth = 'June';
  if month = 'JUL' then pmonth = 'July';
  if month = 'AUG' then pmonth = 'August';
  if month = 'SEP' then pmonth = 'September';
  if month = 'OCT' then pmonth = 'October';
  if month = 'NOV' then pmonth = 'November';
  if month = 'DEC' then pmonth = 'December';

  /* symputx removes all leading and trailing blanks */
  call symputx("PMONTH",PMONTH);  /* Create current long month name macro variable ie
JANUARY */

  devent = catt('Q',qtr,yy);

  call symput("DEVENT",DEVENT);

  mm = symget('MM'); /* Store current two digit month */

  pyear = catt(mm,cc,yy);
  call symput("PYEAR",PYEAR);

 run;

%mend pdate;

%pdate;

%put &begdate &cc &pyear &PMONTH &PMTH &cur_date &devent &mm &pqtr &pyy;

libname tmp1 "\\xxxxgroup.xxxx.com\dfs\AM\United States\US Public
Affairs\0060\JOBS\KPMA\data\&devent.\&pmonth.\Respondent Level Data";
*libname tmp1 "\\xxxxgroup.xxxx.com\dfs\AM\United States\US Public
Affairs\0060\JOBS\KPMA\data\&devent.\&pmonth.\Respondent Level Data\Final Files for CS
Team";


/*General Code for Deliverable Breakdown counts - switch out the below to whatever data
sets you need counts for*/
/*Code for counts for deliverable breakdown*/

/*-------------------------------------------------*
 * Read the three main prior month production files *
 * and store data in temp sas datasets             *
 *-------------------------------------------------*/
data &PMTH&PYR.mpsq_&PYEAR;
set tmp1.&PMTH&PYR.mpsq_&PYEAR;
run;

data &PMTH&PYR.opt_&PYEAR;
set tmp1.&PMTH&PYR.opt_&PYEAR;
run;

data &PMTH&PYR.plr_&PYEAR;
set tmp1.&PMTH&PYR.plr_&PYEAR;
run;

***********************************************;
```

```
* Perform Proc Contents on Prior month SAS dataset *;
************************************************;

proc contents data=&PMTH&PYR.mpsq_&PYEAR noprint;
title "Content of &PMTH&PYR.mpsq_&PYEAR";
run;

proc contents data=&PMTH&PYR.opt_&PYEAR noprint;
title "Content of &PMTH&PYR.opt_&PYEAR";
run;

proc contents data=&PMTH&PYR.plr_&PYEAR noprint;
title "Content of &PMTH&PYR.plr_&PYEAR";
run;

title 'Define macro variables and macro to handle processing of current month data';

%global begdate cc cyear cur_date devent mm CMONTH PMTH qtr yy;

%macro cdate;

 data _null_;

 format hbegsearch date10.;

 %let cur_date = %sysfunc(today(),date10.); /* Current System Date */

 hbegsearch = %sysfunc(intnx(month,"&cur_date"d,-1)); /* Go back 1 month to process
data */

 TODAY = hbegsearch;
 TODAYX = PUT(TODAY,YYMMDD10.);
 TODAYMM = SUBSTR(TODAYX,6,2);

 qtr1 = intnx('qtr',hbegsearch,0);
 qtr2 = qtr(qtr1);                          /* Return Current Quarter */
 call symput("QTR",QTR2);

 hbegsearch = intnx('month',hbegsearch,0,'b');
 call symput("begdate",left(put(hbegsearch,date10.)));
 call symput("MM",TODAYMM);

run;

 %global cc cmonth cmth yr ;

 /*%global pmth yr ;*/

 data _null_;
  format bdate $9. cc $2. cyear $6. devent $4. month $3. mm $2. cmonth $9. qtr 1. yy
$2.;
  bdate = symget('begdate');

  cc ='20';
  yy = substr(bdate,8,2);
  month = substr(bdate,3,3);

  call symput("CC",CC);        /* Create Century macro variable */
  call symput("YR",YY);        /* Create current year marco variable */
```

```
  call symput("CMTH",MONTH);    /* Create current short month name macro variable ie JAN
*/
  qtr = symget('QTR');          /* Create current quarter macro variable */

  *format fwidth 1. cmonth $varying9. fwidth;

  if month = 'JAN' then cmonth = 'January';
  if month = 'FEB' then cmonth = 'February';
  if month = 'MAR' then cmonth = 'March';
  if month = 'APR' then cmonth = 'April';
  if month = 'MAY' then cmonth = 'May';
  if month = 'JUN' then cmonth = 'June';
  if month = 'JUL' then cmonth = 'July';
  if month = 'AUG' then cmonth = 'August';
  if month = 'SEP' then cmonth = 'September';
  if month = 'OCT' then cmonth = 'October';
  if month = 'NOV' then cmonth = 'November';
  if month = 'DEC' then cmonth = 'December';

  /* symputx removes all leading and trailing blanks */
  call symputx("CMONTH",CMONTH);  /* Create current long month name macro variable ie
JANUARY */

  devent = catt('Q',qtr,yy);

  call symput("DEVENT",DEVENT);

  mm = symget('MM'); /* Store current two digit month */

  cyear = catt(mm,cc,yy);
  call symput("CYEAR",CYEAR);
 run;

%mend cdate;

%cdate;

%put &begdate &cc &cyear &CMONTH &CMTH &cur_date &devent &mm &qtr &yy;

*libname tmp1 "\\xxxxgroup.xxxx.com\dfs\AM\United States\US Public
Affairs\0060\JOBS\KPMA\data\&devent.\&cmonth.\Respondent Level Data";
libname tmp1 "\\xxxxgroup.xxxx.com\dfs\AM\United States\US Public
Affairs\0060\JOBS\KPMA\data\&devent.\&cmonth.\Respondent Level Data\Final Files for CS
Team";

/*-----------------------------------------------------*
 * Read the three main current month production files *
 * and store data in temp sas datasets                *
 *-----------------------------------------------------*/
data &CMTH&YR.mpsq_&CYEAR;
set tmp1.&CMTH&YR.mpsq_&CYEAR;
run;

data &CMTH&YR.opt_&CYEAR;
set tmp1.&CMTH&YR.opt_&CYEAR;
run;

data &CMTH&YR.plr_&CYEAR;
set tmp1.&CMTH&YR.plr_&CYEAR;
```

```
run;

*************************************************;
* Perform Proc Contents on Current month SAS dataset *;
*************************************************;

proc contents data=&CMTH&YR.mpsq_&CYEAR noprint;
title "Content of CPMTH&YR.mpsq_&CYEAR";
run;

proc contents data=&CMTH&YR.opt_&CYEAR noprint;
title "Content of &CMTH&YR.opt_&CYEAR";
run;

proc contents data=&CMTH&YR.plr_&CYEAR noprint;
title "Content of &CMTH&YR.plr_&CYEAR";
run;

ods pdf file = "C:\Users\vincent.taylor\Documents\MAS\PROGRAMS\Respondent_Level\&CMONTH
MAS Respondent Level Data.pdf";

/*MAS RESPONDENT LEVEL CHECKS*/
/*MAS RESPONDENT LEVEL FACILTY CHECK - Enusre facil is recoded back to two letter
facility code*/

title "Check 1: Variable Count, Name, Order and Observations";

*************************************************************;
* Produce Compare reports for Prior and Current SAS datasets  *;
* showing variable mismatches                                 *;
*************************************************************;

%macro acomp1(base=, compare=,);
  proc compare base=&base. (obs=0) compare=&compare. (obs=0) listall;
  run;
%mend acomp1;

title "Compare Variable and Position for &PMTH&PYR.mpsq_&PYEAR & &CMTH&YR.mpsq_&CYEAR";
%acomp1(base=&PMTH&PYR.mpsq_&PYEAR, compare=&CMTH&YR.mpsq_&CYEAR);

title "Compare Variable and Position for &PMTH&PYR.opt_&PYEAR & &CMTH&YR.opt_&CYEAR";
%acomp1(base=&PMTH&PYR.opt_&PYEAR, compare=&CMTH&YR.opt_&CYEAR);

title "Compare Variable and Position for &PMTH&PYR.plr_&PYEAR & &CMTH&YR.plr_&CYEAR";
%acomp1(base=&PMTH&PYR.plr_&PYEAR, compare=&CMTH&YR.plr_&CYEAR);

title "Check 2: Report Month Validation";

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR RPTMONTH Check";
tables RPTMONTH/list missing;
run;

proc freq data=&CMTH&YR.opt_&CYEAR;
title "&CMTH&YR.opt_&CYEAR RPTMONTH Check";
tables RPTMONTH/list missing;
run;

proc freq data=&CMTH&YR.plr_&CYEAR;
```

```
title "&CMTH&YR.plr_&CYEAR RPTMONTH Check";
tables RPTMONTH/list missing;
run;

title "Check 3: Facility Name Recode";

proc freq data=&CMTH&YR.mpsq_&CYEAR ;
title "&CMTH&YR.mpsq_&CYEAR Recode Check ";
tables FACIL*mctr/list missing;
run;

proc freq data=&CMTH&YR.opt_&CYEAR;
title "&CMTH&YR.opt_&CYEAR Facility Recode Check";
tables FACIL*mctr/list missing;
run;

proc freq data=&CMTH&YR.plr_&CYEAR;
title "&CMTH&YR.plr_&CYEAR Facility Recode Check";
tables FACIL*mctr/list missing;
run;

title "Check 4: SURVLANG & PAT_LANG_IND Values Check";

/* Replace the 'proc freq data =' line with the dataset we are looking at..below is an
example from Mar */
/* SURVLANG should only have 'E', 'S' as part of the output*/
/* PAT_LANG_IND should have 'O', 'E', 'S' and 'C' as part of the output*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "Check PAT_LANG_IND & SURVLANG in &CMTH&YR.mpsq_&CYEAR";
tables SURVLANG*PAT_LANG_IND / list missing;
run;

proc freq data=&CMTH&YR.opt_&CYEAR;
title "Check PAT_LANG_IND & SURVLANG in &CMTH&YR.opt_&CYEAR";
tables SURVLANG*PAT_LANG_IND / list missing;
run;

proc freq data=&CMTH&YR.plr_&CYEAR;
title "Check PAT_LANG_IND & SURVLANG in &CMTH&YR.plr_&CYEAR";
tables SURVLANG*PAT_LANG_IND / list missing;
run;

title "Check 5: TMCLOSE & MDARRIVE Record Review";

/* Run this code to ensure TMCLOSE 1-5 is transferred to MDARRIVE (also EX and VGEX)
and keep TMCLOSE as it is.*/
/* Replace the 'proc freq data =' line with the dataset we are looking at..below is an
example from Mar */

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "Review the TMCLOSE variable in &CMTH&YR.mpsq_&CYEAR";
tables TMCLOSE*TMCLOSEEX*TMCLOSEVGEX /list missing;
run;

/* Replace the 'proc freq data =' line with the dataset we are looking at..below is an
example from Mar */

proc freq data=&CMTH&YR.mpsq_&CYEAR;
```

```
title "Review the MDARRIVE variable in &CMTH&YR.mpsq_&CYEAR";
tables MDARRIVE*MDARRIVEEX*MDARRIVEVGEX /list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "Review MDARRIVE*TMCLOSE Combo variables in &CMTH&YR.mpsq_&CYEAR";
tables TMCLOSE*MDARRIVE/list missing;
run;

title "Check 6: NPS Variable Review";

/* Replace the 'proc freq data =' line with the dataset we are looking at..below is an
example from Mar */
/* Run this to make sure Recode 1 to 100 for all these variables ("NPS_0 to NPS_10" and
"RENEW_0 - RENEW_10", a total of 22 variables. Make sure the output is '.', 0, and
100*/

title "Review the variables NPS_0 through NPS_4 in &CMTH&YR.mpsq_&CYEAR";

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-NPS0-5 Review";
tables NPS_0*NPS_1*NPS_2*NPS_3*NPS_4*NPS_5 / list missing;
run;

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-NPS6-10 Review";
tables NPS_6*NPS_7*NPS_8*NPS_9*NPS_10 / list missing;
run;

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-NPS PRO Review";
tables NPS_PRO/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-NPS DET Review";
tables NPS_DET/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-NPS PAS Review";
tables NPS_PAS/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-RECOMMEND Review";
tables RECOMMEND/list missing;
run;

title "Check 7: Renew Variable Review";

/* Replace the 'proc freq data = line with the dataset we are looking at */
/* Make sure the output is '.', 0, and 100*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-Renew 0-5 Review";
tables RENEW_0*RENEW_1*RENEW_2*RENEW_3*RENEW_4*RENEW_5 /list missing;
run;

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-Renew 6-10 Review";
tables RENEW_6*RENEW_7*RENEW_8*RENEW_9*RENEW_10 /list missing;
run;
```

```
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-RENEW NEW Review";
tables RENEW_NEW/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR-RENEW TOP 2 Review";
tables RENEWTOP2/list missing;
run;

title "Check 8: Care Corrdination Variables";

/*MAS RESPONDENT LEVEL CARE COORDINATION CHECK*/
/*
proc freq data=&CMTH&YR.mpsq_&CYEAR._Final;
title "&CMTH&YR.mpsq_&CYEAR._Final";
tables CCCARESPEC/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR._Final;
title "&CMTH&YR.mpsq_&CYEAR._Final";
tables CCCARESPECEX/list missing;
run;
*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCCARESPEC*CCCARESPECEX";
tables CCCARESPEC*CCCARESPECEX/list missing;
run;

/*
proc freq data=&CMTH&YR.mpsq_&CYEAR._Final;
title "&CMTH&YR.mpsq_&CYEAR._Final";
tables CCFURSLT/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR._Final;
title "&CMTH&YR.mpsq_&CYEAR._Final";
tables CCFURSLTEX/list missing;
run;
*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCFURSLT*CCFURSLTEX";
tables CCFURSLT*CCFURSLTEX/list missing;
run;

/*
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR";
tables CCGETRSLT/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR";
tables CCGETRSLTEX/list missing;
run;
*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCGETRSLT*CCGETRSLTEX";
tables CCGETRSLT*CCGETRSLTEX/list missing;
```

```
run;

/*
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR";
tables CCTALKMED/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR";
tables CCTALKMEDEX/list missing;
run;
*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCTALKMED*CCTALKMEDEX";
tables CCTALKMED*CCTALKMEDEX / list missing;
run;

title "Check 10: Version Check";

/*MAS RESPONDENT LEVEL CHECK FOR NEW V28 V48 V68*/
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - VERSION*SURVFLAG";
tables VERSION*SURVFLAG /list missing;
run;

/*
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR";
tables TMCLOSE*VERSION/list missing;
run;
*/

proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCCARESPEC*VERSION";
tables CCCARESPEC*VERSION/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCFURSLT*VERSION";
tables CCFURSLT*VERSION/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCGETRSLT*VERSION";
tables CCGETRSLT*VERSION/list missing;
run;
proc freq data=&CMTH&YR.mpsq_&CYEAR;
title "&CMTH&YR.mpsq_&CYEAR - CCTALKMED*VERSION";
tables CCTALKMED*VERSION/list missing;
run;

title "Check 11: Check that CC variable";

title "Check that CC variable does not show up for 8 specific departments for
&CMTH&YR.mpsq_&CYEAR";

proc sql;
 create table department_mpsq as
   select *
   from &CMTH&YR.mpsq_&CYEAR
```

```
   where deptmas in ('CDP', 'BEH', 'OPT', 'PTD', 'SPT', 'OCT', 'AUD', 'NTR') and
(CCFURSLT=. and CCGETRSLT=. and CCTALKMED=. and CCCARESPEC=. and CCFURSLTEX=. and
        CCGETRSLTEX=. and CCTALKMEDEX=. and CCCARESPECEX=.) ;
quit;

proc sort data = department_mpsq;
   by deptmas;

proc freq data=department_mpsq;
   tables DEPTMAS*CCFURSLT*CCGETRSLT*CCTALKMED*CCCARESPEC / list missing;
run;

proc freq data=department_mpsq;
   tables DEPTMAS*CCFURSLTEX*CCGETRSLTEX*CCTALKMEDEX*CCCARESPECEX / list missing;
run;

/*Make sure APPT_TIME is not missing*/

proc sql;
   create table &CMTH&YR.mpsq_&CYEAR._APPT as
        select *

    from &CMTH&YR.mpsq_&CYEAR
      where not missing (appt_time) and
            (datepart(appt_time) >= "&begdate"d & datepart(appt_time) <= "&cur_date"d)
    group by appt_time
    order by appt_time;
QUIT;

proc freq data=&CMTH&YR.mpsq_&CYEAR._APPT;
title "Appt Time in &CMTH&YR.mpsq_&CYEAR";
tables APPT_TIME / list missing;
run;

proc sql;
   create table &CMTH&YR.opt_&CYEAR._APPT as
        select *

    from &CMTH&YR.opt_&CYEAR
      where not missing (appt_time) and
             (datepart(appt_time) >= "&begdate"d & datepart(appt_time) <= "&cur_date"d)
    group by appt_time
    order by appt_time;
quit;

proc freq data=&CMTH&YR.opt_&CYEAR._APPT;
title "Appt Time in &CMTH&YR.opt_&CYEAR";
tables APPT_TIME / list missing;
run;

proc sql;
   create table &CMTH&YR.plr_&CYEAR._APPT as
        select *

    from &CMTH&YR.plr_&CYEAR
      where not missing (appt_time) and
             (datepart(appt_time) >= "&begdate"d & datepart(appt_time) <= "&cur_date"d)
    group by APPT_TIME
    order by APPT_TIME ;
```

```
quit;

proc freq data=&CMTH&YR.plr_&CYEAR._APPT;
title "Appt Time in &CMTH&YR.plr_&CYEAR";
tables APPT_TIME / list missing;
run;

/*Close the PDF file */
ods pdf close;

*----------*
* Time End *
*----------*;
data _null_;
format Start 8.;
Time = Time();
Start = symget('Start');
Duration = Time - Start;
put '****** Start Time= ******' Start time12.5;
put '****** End Time= ******' Time time12.5;
put '****** Duration = ******' Duration time12.2;
run;
```

PROCESS

- Locate the MAS Respondent Lvl Data Checks SAS program which is housed at this location \\xxxxgroup.xxxx.com\dfs\AM\United States\US Public Affairs\0060\JOBS\KPMA\data\QMYR\Month\Respondent Level Data\CS Checks
- Click on the program name to launch base SAS
- There are three manual changes required to submitting this program. Changes need to be made to each of the three libname statements.
- libname tmp1p change to appropriate prior quarter, year and month.
- libname tmp1c change to appropriate quarter, year and month.
- ods pdf file change to appropriate quarter, year and month.
- Save changes made to the program then execute the program.
- Check the log to make sure there are no errors.
- Find the MAS Respondent Lvl Data Check Log which will be stored at this location \\xxxxgroup.xxxx.com\dfs\AM\United States\US Public Affairs\0060\JOBS\KPMA\data\QMYR\Month\Respondent Level Data\CS Checks
- Review the report, if it looks good. Inform Elizabeth Johnson that the report is ready for her review. Inform Elizabeth to let you know the report is ready to be added to the JIRA ticket