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/*=====
Covance Study ID   : COV-000000106331
Program Name       : d_adfa.sas
Purpose            : Program to ADFA dataset
Author             : siva karnati
Date of Creation    : 24MAR2015
Input Data         : SDTM.FA,SDTM.SUPPFA , SDTM.SV,ADAM.ADSL
Output Data        : ADAM.ADFA
Macros Called      : m_printto,m_attrib_adam,m_logchk
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Modification History
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Modified by        :
Modification Date   :
Modification Description :

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%m_printto(route=YES);

/* ADL DATA*/
libname sdtm "/cvn/projects/prj/data/000000106343/datasets/sdtm/sdtmx";

DATA ADSL;
  SET ADAM.ADSL;
  KEEP STUDYID USUBJID SUBJID SUBJDN SITEID AGE SEX SEXC SEXN RACE DTHFL HEIGHT WEIGHTBL
      BMI UCPDGR1 UCPDGR1N /*NICOGR1 NICOGR1N TARGR1 TARGR1N*/ ENRFL SCRFFL EXFL
      EXNOTRFL ENFL COMPLFL FUPFL /*SAFFL FSAFFL*/ SAFBFL SAFABL FASFL PPROT1FL PPROT2FL PPROT3FL
      PPROT4FL RANDFL TRTSDTM TRTSTMF TRTSDT TRTSDAY TRTEDTM TRTETMF TRTEDT TRTEDAY
      TRT01P TRT01PN TRT01A TRT01AN
  ;
RUN;

/*FA DATA*/

PROC SORT DATA=SDTM.FA OUT=FA1; BY USUBJID ;RUN;
PROC SORT DATA=SDTM.SUPPFA OUT=SUPPFA ;BY USUBJID;WHERE QNAM="BRAND";RUN;

PROC SQL;
  CREATE TABLE FA AS SELECT A.*,B.QVAL AS BRAND_ FROM FA1 A LEFT JOIN SUPPFA B ON A.USUBJID=B.USUBJID AND A.FASEQ=INPUT(B.IDVARVAL,BE
ST.);
QUIT;

DATA FA_1;
  SET FA(rename=(visit=visit_));
  FORMAT BRAND $39. PARAMCD $8. PARAM AVALC $200. PARCAT1 PARCAT2 $60. AVALU $20. AVALCAT1 AVISIT $40. visit $27.;
  FORMAT PARAMN AVALCAT1N 8.;
  LENGTH AVAL AVISITN 8.;
  BRAND=STRIP(BRAND_);
  visit=strip(visit_);
/* TYIELD*/

IF FATESTCD="TYIELD" THEN DO;
  PARAMCD=STRIP(FATESTCD);
  PARAM="ISO Tar Yield";
  PARAMN=1;
  AVAL=FASTRESN;
  AVALC=STRIP(FASTRESC);
  IF 1<=FASTRESN<=5 THEN DO ;
    AVALCAT1N = 1;
    AVALCAT1="1 - 5 mg";
  END;

  ELSE IF 6<=FASTRESN<=8 THEN DO;
    AVALCAT1N = 2;
    AVALCAT1="6 - 8 mg";
  END;
  ELSE IF 9<=FASTRESN<=10 THEN DO;
    AVALCAT1N = 3;
    AVALCAT1="9 - 10 mg";
  END;
  ELSE IF FASTRESN>10 THEN DO;
    AVALCAT1N = 4;
    AVALCAT1="> 10 mg";
  END;
END;

/*NYIELD*/

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IF FATESTCD="NYIELD" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="ISO Nicotine Yield";
PARAMN=2;
AVAL=FASTRESN;
AVALC=STRIP(FASTRESC);
    IF .<FASTRESN<=1 THEN DO;
AVALCAT1N = 1;
AVALCAT1="≤ 1 mg";
    END;
    ELSE IF FASTRESN>1 THEN DO;
AVALCAT1N = 2;
AVALCAT1=">1 mg";
    END;
END;
/* QUIT*/

IF FATESTCD="QUIT" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="Does the subject plan to quit smoking during the next 3 months?";
PARAMN=4;
    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
    ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
AVALC=STRIP(FASTRESC);

END;
/*CONYR3*/
IF FATESTCD="CONYR3" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="Did the subject smoke for at least 3 consecutive years?";
PARAMN=5;
    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
    ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
AVALC=STRIP(FASTRESC);

END;
/*SMOKHIST */

IF FATESTCD="SMOKHIST" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="How many cigarettes per day has the subject smoked on average during the last 4 weeks?";
PARAMN=6;
AVALC=STRIP(FASTRESC);
    IF AVALC='<10' THEN AVAL=3;
    ELSE IF AVALC='10 to 19' THEN AVAL=4;
    ELSE IF AVALC='>19' THEN AVAL=5;
END;

/*WKMENT4 */

IF FATESTCD="WKMENT4" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="Did the subject smoke menthol cigarettes in the last 4 weeks?";
PARAMN=7;
    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
    ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
AVALC=STRIP(FASTRESC);

END;
/* NICOTH */

IF FATESTCD="NICOTH" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="The subject has used nicotine-containing products other than commercially available CC, electronic cigarettes and similar
devices, within 4 weeks prior to assessment.";
PARAMN=8;
    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
    ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
AVALC=STRIP(FASTRESC);

END;

IF FATESTCD="PERFORM" THEN DO;
PARAMCD=STRIP(FATESTCD);
PARAM="Was the THS 2.2 product trial performed?";
PARAMN=9;
    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
    ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;

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    AVALC=STRIP(FASTRESC);

END;
/* WILLABL */
IF FATESTCD="WILLABL" THEN DO;
    PARAMCD=STRIP(FATESTCD);
    PARAM= "Is the subject willing and able to use the THS product during the study?" ;

    PARAMN=10;
    IF SUBSTR(FAORRES,1,1)='Y' THEN AVAL=1;
    ELSE IF SUBSTR(FAORRES,1,1)='N' then AVAL=2;
    AVALC=STRIP(FASTRESC);

END;

IF FATESTCD="NUMSTIC" THEN DO;
    PARAMCD=STRIP(FATESTCD);
    PARAM="How many THS 2.2 tobacco sticks used";
    PARAMN=16;
    AVAL=FASTRESN;
    AVALC=STRIP(FASTRESC);
END;

PARCAT1=STRIP(FACAT);
IF FASCAT NE "" THEN PARCAT2=STRIP(FASCAT);
ELSE PARCAT2=STRIP(FAOBJ);
AVISIT=PROPCASE(VISIT);
AVISITN=VISITNUM;
AVALU=STRIP(FASTRESU);
KEEP USUBJID FASEQ FAOBJ FASTAT FAREASND FADTC FADY EPOCH BRAND PARAMCD PARAM VISIT
    AVALU AVALC PARCAT1 PARCAT2 AVALCAT1 AVISIT PARAMN AVAL AVALCAT1N AVISITN;

RUN;

PROC SORT DATA=FA_1;BY USUBJID VISIT; RUN;
PROC SORT DATA=SDTM.SV OUT=SV(KEEP=USUBJID SVSTDTC VISIT); BY USUBJID VISIT ;RUN;
DATA FA_2;
    MERGE FA_1(IN=A) SV;
    BY USUBJID VISIT;
    IF A;
    FORMAT ADT DATE9.;
    IF FASTAT EQ " " AND FADTC NE "" THEN ADT=INPUT(FADTC,YYMMDD10.);
    ELSE IF FADTC EQ "" AND FASTAT NE "NOT DONE" THEN ADT=INPUT(SVSTDTC,YYMMDD10.);
    DROP SVSTDTC VISIT;
RUN;

PROC SORT DATA=ADSL; BY USUBJID;RUN;

DATA ADFA(rename=(avalcat1n=avalct1n));
    MERGE FA_2(IN=A) ADSL;
    BY USUBJID;
    IF A;
    LENGTH APERIODC $10. APERIOD ADAY TRTPN TRTAN 8. TRTP TRTA $40.;
    IF NMISS(ADT,TRTSDT)=0 THEN DO;
        ADAY=ADT-TRTSDT+1;
    END;

    APERIOD=1;
    APERIODC="Period 1";
    TRTP=STRIP(TRT01P);
    TRTPN=TRT01PN;
    TRTA=STRIP(TRT01A);
    TRTAN=TRT01AN;

DROP TRT01;;

FORMAT AVA: PAR: BRAND AVISIT ;
RUN;

%m_attrib_adam(dset=ADFA);

PROC SORT DATA=ADFA
OUT=ADAM.ADFA(LABEL="Findings About Events or Interventions Analysis Dataset");
BY USUBJID AVISITN PARAMCD;
RUN;

proc compare base=adam.adfa compare=qadam.qadfa listall;

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run;

%M_LOGCHK;