```sas
1  libname sdtmdata '/home/dimplepatelch0/5457c/sdtmdata';
2  proc sql;
3      select distinct name into :varlist separated by ' ' from dictionary.columns
4          where libname='CRFDATA' and memname='AEDE' order by name;
5  quit;
6
7  proc print data=crfdata.aede;
8  proc contents data=crfdata.aede;
9  proc contents data=sdtmdata.dmdp2;
10 proc sql;
11     create table subhash as select strip(SUBJID) as SUBJID, USUBJID from
12         sdtmdata.dmdp2;
13 quit;
14
15 proc sql;
16     create table aede2 as select strip(PATNUM) as SUBJID, * from crfdata.aede;
17     alter table aede2 modify SUBJID char(200);
18 quit;
19
20 proc sql;
21     create table dszs1 as select strip(PATNUM) as SUBJID, * from crfdata.dszs1;
22     alter table dszs1 modify SUBJID char(200);
23 quit;
24
25 data work.aede3;
26     length SUBJID $200 USUBJID $200 AERDR $19 AENUM $200 EPOCH $200;
27     if _n_=1 then
28         do;
29             declare hash dmp(dataset: "work.subhash");
30             dmp.definekey("SUBJID");
31             dmp.definedata("USUBJID");
32             dmp.definedone();
33             call missing(SUBJID, USUBJID);
34             declare hash ds(dataset: "work.dszs1");
35             ds.definekey("SUBJID","AERDR","AENUM","AEONG");
36             ds.definedata("EPOCH");
37             ds.definedone();
38             call missing(AERDR,AENUM,EPOCH,AEONG,EPOCH);
39         end;
40     set work.aede2;
41     rc1=dmp.find();
42     rc2=ds.find();
43     if rc1=0;
44     drop rc1 rc2;
45 run;
46
47 proc format;
48     value $aeser 'Non-Serious'='N' 'Serious'='Y';
49     value $aeacn 'NONE'='DOSE NOT CHANGED'
50     'Drug Permanently Discontinued'='DRUG WITHDRAWN'
51     'Dose Held'='DRUG INTERRUPTED';
52     value $aeyn '1'='Y' '0'='N';
53     value $aetoxgr 'MILD'=1
54     'MODERATE'=2
55     'SEVERE'=3
56     'LIFE-THREATENING'=4
57     'DEATH'=5;
58 run;
59
60 data work.aede4;
61     keep &vary;
62     length AEACNOTH $200 AERELNST $200 AESTRTPT $10
63     AESTPT $200 AEENRTPT $10 AEENTPT $200 AESOD $2 AESEQ 8;
64     set work.aede3(rename=(AENUM=AESPID AEDE=AEMODIFY AETYP=AESER
65     AESOC=AEBODSYS AEPT=AEDECOD AEACTX=AEACN AEBDEF=AESCONG AEDISAB=AESDISAB AEDTH=AESDTH AEIHOSP=AESHOSP
66     AELIFE=AESLIFE AEOTHCR=AESMIE AETXMD=AECONTRT AEG=AETOXGR AEODR=AESTDTC AERDR=AEENDTC AERAW=AETERM));
67     STUDYID='PRJ5457C';
68     DOMAIN='AE';
69     AEDECOD=strip(AEDECOD);
```

```sas
 70        AECAT='GENERAL ADVERSE EVENTS';
 71        AESER=put(AESER, $aeser.);
 72        AEACN=put(AEACN,$aeacn.);
 73        AEBODSYS=strip(AEBODSYS);
 74        if AETXNO=1 then AEACNOTH="NONE";
 75        if AETXPR=1 then AEACNOTH='PROCEDURE/SURGERY';
 76        if AETXDC=1 then AEACNOTH='SUBJECT DISCONTINUED FROM STUDY';
 77        AEREL=upcase(substr(AETX,1,1));
 78        if sum(AENONE,AESDX,AECDX,AECMD) gt 1 then
 79        AERELNST='MULTIPLE';
 80        else if sum(AENONE,AESDX,AECDX,AECMD) eq 1 and AENONE=1 then AERELNST='NONE';
 81        else if sum(AENONE,AESDX,AECDX,AECMD) eq 1 and AESDX=1 then AERELNST='DISEASE UNDER STUDY';
 82        else if sum(AENONE,AESDX,AECDX,AECMD) eq 1 and AECDX=1 then AERELNST='CONCURRENT ILLNESS';
 83        else if sum(AENONE,AESDX,AECDX,AECMD) eq 1 and AECMD=1 then AERELNST='CONCOMITANT MEDICATION';
 84        AESCONG=put(AESCONG,$aeyn.);
 85        AESDISAB=put(AESDISAB,$aeyn.);
 86        AESDTH=put(AESDTH,$aeyn.);
 87        AESHOSP=put(AESHOSP,$aeyn.);
 88        AESLIFE=put(AESLIFE,$aeyn.);
 89        AESMIE=put(AESMIE,$aeyn.);
 90        AECONTRT=put(AECONTRT,$aeyn.);
 91        AETOXGR=put(AETOXGR,$aetoxgr.);
 92        if AESTDTC eq "" then AESTRTPT='U';
 93        else AESTRTPT='';
 94        if AESTRTPT then AESTTPT = 'STUDY PERIOD';
 95        else AESTTPT="";
 96        if AEONG=1 and AEENDTC="" then AEENRTPT='ONGOING';
 97        if AEONG=1 then
 98        AEENTPT=EPOCH;
 99   run;
100
101   proc sort data=aede4 out=aede5;
102        by STUDYID USUBJID AEDECOD AESTDTC AESPID;
103   run;
104
105   data aede6;
106        keep &vary;
107        set work.aede5;
108        by USUBJID;
109        if FIRST.USUBJID then count=1;
110        else count + 1;
111        AESEQ=count;
112        drop count;
113   run;
114
115   proc sql;
116        select distinct name into :varz separated by ',' from dictionary.columns
117        where libname='WORK' and memname='AEDE4';
118   run;
119
120   data sdtmdata.aedp;
121        set emptyAEshell aede6;
122        AEACNOTH=put(AEACNOTH,$AEACNOTH_AEDE_AETXNO.);
123        AEACN=put(AEACN,$AEACN_AEDE_AEACTX.);
124        AERELNST=put(AERELNST,$AERELNST_AEDE_AENONE.);
125   run;
126
127   proc compare base=sdtmdata.ae compare=sdtmdata.aedp out=sdtmdata.qcae;
128   title 'QC Check of SDTM AE';
129   run;
```