```
1           OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
72
73          options center ps=60 ls=72;
74          dm'log;clear;out;clear;';
75
76
77          libname in
77        ! '/folders/myfolders/STAT7500_Statistical_Programming/Mini-pro
77        ! ject1/in';
NOTE: Libref IN was successfully assigned as follows:
      Engine:         V9
      Physical Name:
      /folders/myfolders/STAT7500_Statistical_Programming/Mini-project1/
      in
78          libname mp1
78        ! '/folders/myfolders/STAT7500_Statistical_Programming/Mini-pro
78        ! ject1/mp1';
NOTE: Libref MP1 was successfully assigned as follows:
      Engine:         V9
      Physical Name:
      /folders/myfolders/STAT7500_Statistical_Programming/Mini-project1/
      mp1
79          proc copy inlib=in outlib=mp1 noclone datecopy ;
80          run;

NOTE: Copying IN.AE to MP1.AE (memtype=DATA).
NOTE: System Options for BUFSIZE and REUSE were used at user's request.
NOTE: Libname and/or system options for compress, pointobs, data
      representation and encoding attributes were used at user's
      request.
NOTE: There were 20 observations read from the data set IN.AE.
NOTE: The data set MP1.AE has 20 observations and 5 variables.
NOTE: Copying IN.DM to MP1.DM (memtype=DATA).
NOTE: System Options for BUFSIZE and REUSE were used at user's request.
NOTE: Libname and/or system options for compress, pointobs, data
      representation and encoding attributes were used at user's
      request.
NOTE: There were 64 observations read from the data set IN.DM.
NOTE: The data set MP1.DM has 64 observations and 10 variables.
NOTE: Copying IN.EX to MP1.EX (memtype=DATA).
NOTE: System Options for BUFSIZE and REUSE were used at user's request.
NOTE: Libname and/or system options for compress, pointobs, data
      representation and encoding attributes were used at user's
      request.
NOTE: There were 374 observations read from the data set IN.EX.
NOTE: The data set MP1.EX has 374 observations and 4 variables.
NOTE: PROCEDURE COPY used (Total process time):
      real time            0.13 seconds
      cpu time             0.04 seconds


81
82          data ae;
83              set mp1.ae;
84          run;

NOTE: There were 20 observations read from the data set MP1.AE.
NOTE: The data set WORK.AE has 20 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time            0.01 seconds
      cpu time             0.00 seconds
```

```
 85
 86          proc sort data = ae;
 87              by SUBJID;
 88          run;

NOTE: There were 20 observations read from the data set WORK.AE.
NOTE: The data set WORK.AE has 20 observations and 5 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.00 seconds
      cpu time             0.01 seconds


 89
 90
 91          data dm;
 92              set mp1.dm;
 93          run;

NOTE: There were 64 observations read from the data set MP1.DM.
NOTE: The data set WORK.DM has 64 observations and 10 variables.
NOTE: DATA statement used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds


 94
 95          proc sort data = dm;
 96              by SUBJID;
 97          run;

NOTE: There were 64 observations read from the data set WORK.DM.
NOTE: The data set WORK.DM has 64 observations and 10 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds


 98
 99
100          data ex;
101              set mp1.ex;
102          run;

NOTE: There were 374 observations read from the data set MP1.EX.
NOTE: The data set WORK.EX has 374 observations and 4 variables.
NOTE: DATA statement used (Total process time):
      real time            0.01 seconds
      cpu time             0.01 seconds


103
104          proc sort data = ex;
105              by SUBJID;
106          run;

NOTE: There were 374 observations read from the data set WORK.EX.
NOTE: The data set WORK.EX has 374 observations and 4 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds


107
108          data mp1.adae;
109          run;
```

```
NOTE: The data set MP1.ADAE has 1 observations and 0 variables.
NOTE: DATA statement used (Total process time):
      real time             0.03 seconds
      cpu time              0.01 seconds


110
111
112        data mp1.adae;
113        merge dm ex ae;
114        by SUBJID;
115        run;

NOTE: MERGE statement has more than one data set with repeats of BY
      values.
NOTE: There were 64 observations read from the data set WORK.DM.
NOTE: There were 374 observations read from the data set WORK.EX.
NOTE: There were 20 observations read from the data set WORK.AE.
NOTE: The data set MP1.ADAE has 374 observations and 17 variables.
NOTE: DATA statement used (Total process time):
      real time             0.03 seconds
      cpu time              0.02 seconds


116
117        data adae;
118        set mp1.adae;
119        run;

NOTE: There were 374 observations read from the data set MP1.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 17 variables.
NOTE: DATA statement used (Total process time):
      real time             0.01 seconds
      cpu time              0.00 seconds


120
121        data adae;
122        retain SUBJID IPISSUED Visit_Date;
123        format Visit_Date date9. SUBJID $3. BRTHDT date9. RACE $34.
123     ! SEX $6. ETHNIC $22.;
124        set adae;
125        SUBJID = SUBJID;
126        BRTHDT = input(DTBIRTH,ddmmyy10.);
127
128        ETHNIC = ETHNIC;
129        if ETHNIC = '1' then ETHNIC = "Hispanic or Latino";
130        if ETHNIC = '2' then ETHNIC = "Not Hispanic or Latino";
131
132        if GENDER = '1' then SEX = "Male";
133        if GENDER = '2' then SEX = "Female";
134
135        if RACEWH = '5' then RACE = "Caucasian";
136        if RACEHAW = '4' then RACE = "Haiwaiian or Other Pacific
136     ! Islander";
137        if RACEBL = '3' then RACE = "African American or Black";
138        if RACENA = '2' then RACE = "Native American";
139        if RACEAS = '1' then RACE = "Asian";
140        if RACEOTH = '6' then RACE = "Other";
141
142
143        drop DTBIRTH RACEWH RACEHAW RACEBL RACENA RACEAS RACEOTH
143     ! GENDER;
144
```

```
145          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 12 variables.
NOTE: DATA statement used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds


146
147          proc sort data = adae;
148          by SUBJID IPISSUED Visit_Date;
149          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 12 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds


150
151          data adae;
152          retain SUBJID Visit_Date IPISSUED TRTSDT;
153          format TRTSDT date9.;
154          set adae;
155
156          if IPISSUED = '1' then do;
157          by SUBJID;
158          if first.SUBJID then TRTSDT = Visit_Date;
159          retain TRTSDT;
160          end;
161
162          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 13 variables.
NOTE: DATA statement used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds


163
164          proc sort data = adae;
165          by SUBJID IPISSUED descending Visit_Date;
166          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 13 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.00 seconds
      cpu time             0.01 seconds


167
168          data adae;
169          retain SUBJID Visit_Date IPISSUED TRTSDT TRTEDT;
170          format TRTEDT date9.;
171          set adae;
172
173          if IPISSUED = '1' then do;
174          by SUBJID;
175          if first.SUBJID then TRTEDT = Visit_Date;
176          retain TRTEDT;
177          end;
```

```
    178
    179          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 14 variables.
NOTE: DATA statement used (Total process time):
      real time             0.00 seconds
      cpu time              0.00 seconds


    180
    181          proc sort data = adae;
    182          by SUBJID Visit_Date;
    183          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 14 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time             0.00 seconds
      cpu time              0.00 seconds


    184
    185
    186          data adae;
    187          set adae;
    188          format AGECAT $14. AETERM $37. AETRTEM $3. AESDT date9.
    188      ! AEEDT date9. TRTEDT date9.;
    189
    190
    191          AESDT = Date_Of_Onset;
    192          AEEDT = input(trim(Date_Of_Resolution),?? mmddyy10.);
    193
    194          if AESDT ne . and TRTSDT ne . then AEDY = AESDT -TRTSDT +1;
    195          else AEDY =.;
    196
    197
    198          if TRTEDT ne . and TRTSDT ne . then TRTDUR = TRTEDT - TRTSDT
    198      !  +1;
    199          else TRTDUR =. ;
    200
    201          if AESDT ne . and AESDT ge TRTSDT then AETRTEM = "yes";
    202          else AETRTEM = "no";
    203
    204          if AEEDT ne . and AESDT ne . then AEDUR = AEEDT - AESDT + 1;
    205          else AEDUR =. ;
    206
    207          if Description = "" then AETERM = "None";
    208          else AETERM = Description;
    209
    210          if TRTSDT ne . and BRTHDT ne . then AGE = int((TRTSDT -
    210      ! BRTHDT)/365.25);
    211          else AGE =.;
    212
    213          if AGE lt 65 then AGECAT = '<65 Years Old';
    214          if AGE ge 65 then AGECAT = '>=65 Years Old';
    215
    216          run;

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 23 variables.
NOTE: DATA statement used (Total process time):
      real time             0.00 seconds
      cpu time              0.00 seconds
```

```
217
218        data adae;
219        set adae;
220        drop  Date_Of_Onset Date_Of_Resolution Description IPISSUED
220      ! Identifier Visit_Number Visit_Date;
221        run;
```

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 16 variables.
NOTE: DATA statement used (Total process time):
      real time   0.00 seconds
      cpu time   0.00 seconds

```
222
223        data adae;
224        label SUBJID = 'Subject ID' BRTHDT = 'Date of Birth' AGE =
224      ! 'Age(Years)' AGECAT = 'Age Category' RACE = 'Race'
225          SEX = 'Sex' ETHNIC = 'Ethnicity' TRTSDT = 'Treatment
225      ! Start Date' TRTEDT = 'Treatment End Date'
226          TRTDUR = 'Duration of Treatment(Days)' AESDT ='Adverse
226      ! Event Start Date' AEEDT = 'Adverse Event End Date'
227          AEDY = 'Adverse Event Relative Day' AETRTEM = 'Treatment
227      ! Emergent Flag' AEDUR = 'AE Duration(Days)'
228          AETERM = 'Adverse Event Term'
229          ;
230        set adae;
231        retain SUBJID BRTHDT AGE AGECAT RACE SEX ETHNIC TRTSDT
231      ! TRTEDT TRTDUR AESDT AEEDT AEDY AETRTEM AEDUR AETERM;
232
233        run;
```

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: The data set WORK.ADAE has 374 observations and 16 variables.
NOTE: DATA statement used (Total process time):
      real time   0.00 seconds
      cpu time   0.00 seconds

```
234
235        proc sort data=adae noduprecs;
236             by _all_ ;
237        run;
```

NOTE: There were 374 observations read from the data set WORK.ADAE.
NOTE: 302 duplicate observations were deleted.
NOTE: The data set WORK.ADAE has 72 observations and 16 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time   0.00 seconds
      cpu time   0.01 seconds

```
238
239        data mp1.adae;
240        set adae;
241        run;
```

NOTE: There were 72 observations read from the data set WORK.ADAE.
NOTE: The data set MP1.ADAE has 72 observations and 16 variables.
NOTE: DATA statement used (Total process time):
      real time   0.03 seconds
      cpu time   0.01 seconds

```
242
243
244
245
246        OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
258
```