Dominic LaRoche

Introduction to date functions

Assignment 5

10/14/14

The frequency of patients who are alive, lost to follow-up, or deceased is given in table 1.

The median, minimum, and maximum age at last follow-up, on 7 October 2013, or at the date of death is given in table 2.

| **PTSTATUS** | **Frequency** | **Percent** | **Cumulative Frequency** | **Cumulative Percent** |
| --- | --- | --- | --- | --- |
| **Alive** | 36 | 72.00 | 36 | 72.00 |
| **Died** | 13 | 26.00 | 49 | 98.00 |
| **LFU** | 1 | 2.00 | 50 | 100.00 |

Table 1. Frequency of patient status.

| **Variable** | **Median** | **Minimum** | **Maximum** |
| --- | --- | --- | --- |
| |  | | --- | | **Age at last follow-up** | | **Age on 7 Oct. 2013** | | **Age at death** | | |  | | --- | | 49.9671233 | | 55.9808219 | | 50.2767123 | | |  | | --- | | 34.0273973 | | 38.6164384 | | 34.0273973 | | |  | | --- | | 73.0630137 | | 73.6109589 | | 56.0657534 | |

Table 2. Age at status points.

SAS Code:

**proc** **import**

datafile="C:\Classes\SASandDataMgmt\Test\_patient.csv"

out=dates replace;

**run**;

**proc** **freq** data=dates;

table ptstatus;

**run**;

**data** dates;

set dates;

/\*Calculate age at last follow-up\*/

age\_fu = yrdif(DOB,DT\_FU,'AGE');

run;

**data** dates;

set dates;

/\*Calculate age now\*/

now = input('07oct13',date7.) ;

if dt\_death = **.** then age\_now = yrdif(DOB,now,'AGE');

run;

/\*Calculate the age at death\*/

**data** dates;

set dates;

if dt\_death ne **.** then death\_age = yrdif(DOB,dt\_death,'AGE');

run;

**proc** **means** data=dates median min max;

var age\_fu age\_now death\_age;

**run**;

Log File:

219 proc import

220 datafile="C:\Classes\SASandDataMgmt\Test\_patient.csv"

221 out=dates replace;

222 run;

223 /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

224 \* PRODUCT: SAS

225 \* VERSION: 9.3

226 \* CREATOR: External File Interface

227 \* DATE: 14OCT14

228 \* DESC: Generated SAS Datastep Code

229 \* TEMPLATE SOURCE: (None Specified.)

230 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

231 data WORK.DATES ;

232 %let \_EFIERR\_ = 0; /\* set the ERROR detection macro variable \*/

233 infile 'C:\Classes\SASandDataMgmt\Test\_patient.csv' delimiter = ',' MISSOVER DSD

233! lrecl=32767 firstobs=2 ;

234 informat CASE best32. ;

235 informat DOB mmddyy10. ;

236 informat DT\_FU mmddyy10. ;

237 informat DT\_LFU mmddyy10. ;

238 informat DT\_DEATH mmddyy10. ;

239 informat PTSTATUS $5. ;

240 format CASE best12. ;

241 format DOB mmddyy10. ;

242 format DT\_FU mmddyy10. ;

243 format DT\_LFU mmddyy10. ;

244 format DT\_DEATH mmddyy10. ;

245 format PTSTATUS $5. ;

246 input

247 CASE

248 DOB

249 DT\_FU

250 DT\_LFU

251 DT\_DEATH

252 PTSTATUS $

253 ;

254 if \_ERROR\_ then call symputx('\_EFIERR\_',1); /\* set ERROR detection macro variable \*/

255 run;

NOTE: The infile 'C:\Classes\SASandDataMgmt\Test\_patient.csv' is:

Filename=C:\Classes\SASandDataMgmt\Test\_patient.csv,

RECFM=V,LRECL=32767,File Size (bytes)=1728,

Last Modified=07Oct2014:11:54:00,

Create Time=07Oct2014:11:54:00

NOTE: 50 records were read from the infile 'C:\Classes\SASandDataMgmt\Test\_patient.csv'.

The minimum record length was 28.

The maximum record length was 39.

NOTE: The data set WORK.DATES has 50 observations and 6 variables.

NOTE: DATA statement used (Total process time):

real time 0.04 seconds

cpu time 0.04 seconds

50 rows created in WORK.DATES from C:\Classes\SASandDataMgmt\Test\_patient.csv.

NOTE: WORK.DATES data set was successfully created.

NOTE: The data set WORK.DATES has 50 observations and 6 variables.

NOTE: PROCEDURE IMPORT used (Total process time):

real time 0.23 seconds

cpu time 0.20 seconds

256

257 proc freq data=dates;

258 table ptstatus;

259 run;

NOTE: There were 50 observations read from the data set WORK.DATES.

NOTE: PROCEDURE FREQ used (Total process time):

real time 0.01 seconds

cpu time 0.01 seconds

260

261 data dates;

262 set dates;

263 /\*Calculate age at last follow-up\*/

264 age\_fu = yrdif(DOB,DT\_FU,'AGE');

265 run;

NOTE: There were 50 observations read from the data set WORK.DATES.

NOTE: The data set WORK.DATES has 50 observations and 7 variables.

NOTE: DATA statement used (Total process time):

real time 0.01 seconds

cpu time 0.01 seconds

266 data dates;

267 set dates;

268 /\*Calculate age now\*/

269 now = input('07oct13',date7.) ;

270 if dt\_death = . then age\_now = yrdif(DOB,now,'AGE');

271 run;

NOTE: There were 50 observations read from the data set WORK.DATES.

NOTE: The data set WORK.DATES has 50 observations and 9 variables.

NOTE: DATA statement used (Total process time):

real time 0.02 seconds

cpu time 0.01 seconds

272

273 /\*Calculate the age at death\*/

274 data dates;

275 set dates;

276 if dt\_death ne . then death\_age = yrdif(DOB,dt\_death,'AGE');

277 run;

NOTE: There were 50 observations read from the data set WORK.DATES.

NOTE: The data set WORK.DATES has 50 observations and 10 variables.

NOTE: DATA statement used (Total process time):

real time 0.01 seconds

cpu time 0.01 seconds

278

279 proc means data=dates median min max;

280 var age\_fu age\_now death\_age;

281 run;

NOTE: There were 50 observations read from the data set WORK.DATES.

NOTE: PROCEDURE MEANS used (Total process time):

real time 0.04 seconds

cpu time 0.04 seconds