
April, 2015

THIS IS AN EXAMPLE OF A PROGRAM THAT CAN BE USED TO READ THE
PUBLIC-USE LINKED MORTALITY ASCII FILES FROM A STORED LOCATION
INTO TEMPORARY SAS WORK DATASET AND PRODUCE BASIC FREQUENCIES.

NOTE: THE FORMAT DEFINITIONS GIVEN BELOW WILL RESULT IN
PROCEDURE OUTPUT SHOWING VALUES THAT HAVE BEEN
GROUPED AS THEY ARE SHOWN IN THE FILE LAYOUT
DOCUMENTATION.

NOTE: IN ORDER TO READ THE PUBLIC-USE LINKED MORTALITY ASCII FILE
INTO A PERMANENT SAS DATASET, PLEASE CONSULT SAS DOCUMENTATION
AND MODIFY THE PROGRAM ACCORDINGLY.

NOTE: AS SOME VARIABLES ARE SURVEY SPECIFIC, WE HAVE HIGHLIGHTED
SECTIONS OF CODE WITH "!!!" TO IDENTIFY WHERE THE USER
SHOULD MODIFY THE PROGRAM BASED ON THE SURVEY.

Public-use Linked Mortality-Follow-up through December 31, 2011

TO DOWNLOAD AND SAVE THE PUBLIC-USE LINKED MORTALITY FILES TO YOUR
HARD DRIVE, FOLLOW THESE STEPS:

*STEP 1: DESIGNATE A FOLDER ON YOUR HARD DRIVE TO DOWNLOAD THE PUBLIC-USE LINKED
MORTALITY FILE. IN THIS EXAMPLE, THE DATA WILL
BE SAVED TO: 'C:\PUBLIC USE DATA'

*STEP 2: TO DOWNLOAD THE PUBLIC-USE LINKED MORTALITY FILE, GO TO THE WEB SITE:
ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/datalinkage/linked_mortality/.

RIGHT CLICK ON THE DESIRED SURVEY LINK AND SELECT "Save Target as...". A "Save as"
SCREEN WILL APPEAR AND YOU WILL NEED TO SELECT AND INPUT A LOCATION WHERE TO SAVE
THE DATA FILE ON YOUR HARD DRIVE.

IT IS ALSO IMPORTANT THAT THE BOX "Save Type as" reads ".dat Document".
THIS WILL ENSURE THAT THE DATA FILE IS SAVED TO YOUR HARD DRIVE IN THE
CORRECT FORMAT.

IN THIS EXAMPLE, WE SAVE THE DATA FILE IN THE FOLDER 'C:\PUBLIC USE DATA\
AND SAVE THE DATA FILE AS "SURVEYNAME_mort_public_use_2011.dat".

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

```
* DEFINE VARIABLE VALUES FOR REPORTS;
```

```
PROC FORMAT;
```

```
VALUE ELIGFMT
```

```
1 = "Eligible"
```

```
2 = "Under age 18"
```

```
3 = "Ineligible" ;
```

```
VALUE MORTFMT
```

```
0 = "Assumed alive"
```

```
1 = "Assumed deceased"
```

```
. = "Ineligible or under age 18";
```

```
VALUE MRSRCFMT
```

```
1 = "Yes";
```

```
VALUE CAUSEFMT
```

```
0 = "No"
```

```
1 = "Yes"
```

```
. = "Ineligible, under age 18 or assumed alive";
```

```
VALUE FLAGFMT
```

```
0 = "No"
```

```
1 = "Yes"
```

```
. = "Ineligible, under age 18, assumed alive or no cause data";
```

```
VALUE $UCODFMT
```

```
"001" = "Diseases of heart (I00-I09, I11, I13, I20-I51)"
```

```
"002" = "Malignant neoplasms (C00-C97)"
```

```
"003" = "Chronic lower respiratory diseases (J40-J47)"
```

```
"004" = "Accidents (unintentional injuries) (V01-X59, Y85-Y86)"
```

```
"005" = "Cerebrovascular diseases (I60-I69)"
```

```
"006" = "Alzheimer's disease (G30)"
```

```
"007" = "Diabetes mellitus (E10-E14)"
```

```
"008" = "Influenza and pneumonia (J09-J18)"
```

```
"009" = "Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)"
```

```
"010" = "All other causes (residual)"
```

```
" " = "Ineligible, under age 18, assumed alive or no cause data" ;
```

```
RUN ;
```

```
*CREATE A TEMPORARY SAS WORK DATASET;
```

*This applies to all surveys but users need to select the appropriate public-use ID for the

*Select PUBLICID for NHIS or LSOAII;

*Select SEQN for NHANES;

DATA NHANES;

INFILE "NHANES_III_MORT_2011_PUBLIC.dat" LRECL = 61 PAD MISSEVER ;

* INPUT VARIABLES;

INPUT

/*!!!THE PUBLIC-USE ID IS SURVEY SPECIFIC
SELECT THE PUBLIC-USE ID THAT CORRESPONDS
TO THE SURVEY BEING READ IN!!!*/

SEQN 1-5 /* SEQN IS THE PUBLIC-USE ID FOR NHANES */

ELIGSTAT 15

MORTSTAT 16

CAUSEAVL 17

UCOD_LEADING \$18-20

DIABETES 21

HYPERTEN 22

PERMTH_INT 44-46 /*NHANES ONLY*/

PERMTH_EXM 47-49 /*NHANES ONLY*/

MORTSRCE_NDI 50

MORTSRCE_CMS 51

MORTSRCE_SSA 52

MORTSRCE_DC 53

MORTSRCE_DCL 54

;

* DEFINE VARIABLE LABELS;

LABEL

/*!!!SELECT PUBLICID OR SEQN!!!*/

ELIGSTAT = 'Eligibility Status for Mortality Follow-up'

MORTSTAT = 'Final Mortality Status'

CAUSEAVL = 'Cause of Death Data Available'

UCOD_LEADING = 'Underlying Cause of Death Recode from UCOD_113 Leading Causes'

DIABETES = 'Diabetes flag from multiple cause of death'

```

HYPERTEN          = 'Hypertension flag from multiple cause of death'

/*!!!THE FOLLOWING LABELS ARE SURVEY SPECIFIC
    KEEP ONLY THOSE THAT CORRESPOND TO THE SURVEY BEING
    READ IN!!!*/

/*NHANES ONLY*/
SEQN              = 'NHANES Respondent Sequence Number'
PERMTH_INT        = 'Person Months of Follow-up from Interview Date'
PERMTH_EXM        = 'Person Months of Follow-up from MEC/Exam Date'

MORTSRCE_NDI      = 'Mortality Source: NDI Match'
MORTSRCE_CMS      = 'Mortality Source: CMS Information'
MORTSRCE_SSA      = 'Mortality Source: SSA Information'
MORTSRCE_DC       = 'Mortality Source: Death Certificate Match'
MORTSRCE_DCL      = 'Mortality Source: Data Collection'
;

* ASSOCIATE VARIABLES WITH FORMAT VALUES;
FORMAT
    ELIGSTAT      ELIGFMT.
    MORTSTAT      MORTFMT.
    UCOD_LEADING  UCODFMT.
    MORTSRCE_NDI  MRSRCFMT.
    MORTSRCE_CMS  MRSRCFMT.
    MORTSRCE_SSA  MRSRCFMT.
    MORTSRCE_DC   MRSRCFMT.
    MORTSRCE_DCL  MRSRCFMT.

    CAUSEAVL      CAUSEFMT.
    DIABETES      FLAGFMT.
    HYPERTEN      FLAGFMT.
;
RUN;

OPTIONS PAGENO=1;

*RUN PROC CONTENTS;
PROC CONTENTS DATA=NHANES;
RUN;

*RUN FREQUENCIES;
PROC FREQ DATA=NHANES;
TABLES

```

```

    ELIGSTAT
    MORTSTAT
    UCOD_LEADING
    CAUSEAVL
    DIABETES
    HYPERTEN
    MORTSRCE_NDI
    MORTSRCE_CMS
    MORTSRCE_SSA
    MORTSRCE_DC
    MORTSRCE_DCL

/*!!!THE FOLLOWING VARIABLES ARE SURVEY SPECIFIC
      KEEP ONLY THOSE THAT CORRESPOND TO THE SURVEY BEING
      READ IN!!!*/

    PERMTH_INT  /*NHANES ONLY*/
    PERMTH_EXM  /*NHANES ONLY*/

    / MISSING;
TITLE1 "NHANES PUBLIC-USE LINKED MORTALITY FILE";
TITLE2 "UNWEIGHTED FREQUENCIES";

* USER NOTE: TO SEE UNFORMATTED VALUES IN THE FREQUENCY PROCEDURE,
  UNCOMMENT THE STATEMENT "FORMAT _ALL_" BELOW ;
* FORMAT _ALL_;
RUN;

```

<!DOCTYPE html>

SAS Output

NHANES PUBLIC-USE LINKED MORTALITY FILE

UNWEIGHTED FREQUENCIES

The CONTENTS Procedure

Data Set Name

WORK.NHANES

Observations

33994

Member Type

DATA

Variables

14

Engine

V9

Indexes

0

Created

03/30/2018 22:12:01

Observation Length

112

Last Modified

03/30/2018 22:12:01

Deleted Observations

0

Protection

Compressed

NO

Data Set Type

Sorted

NO

Label

Data Representation

SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64

Encoding

utf-8 Unicode (UTF-8)

Engine/Host Dependent Information

Data Set Page Size

65536

Number of Data Set Pages

59

First Data Page

1

Max Obs per Page

584

Obs in First Data Page

546

Number of Data Set Repairs

0

Filename

/tmp/SAS_workE58F000009AA_localhost.localdomain/nhanes.sas7bdat

Release Created

9.0401M5

Host Created

Linux

Inode Number

670887

Access Permission

rw-r--r--

Owner Name

sasdemo

File Size

4MB

File Size (bytes)
3932160
Alphabetic List of Variables and Attributes

Variable
Type
Len
Format
Label
4
CAUSEAVL
Num
8
CAUSEFMT.
Cause of Death Data Available
6
DIABETES
Num
8
FLAGFMT.
Diabetes flag from multiple cause of death
2
ELIGSTAT
Num
8
ELIGFMT.
Eligibility Status for Mortality Follow-up
7
HYPERTEN
Num
8

FLAGFMT.

Hypertension flag from multiple cause of death

11

MORTSRCE_CMS

Num

8

MRSRCFMT.

Mortality Source: CMS Information

13

MORTSRCE_DC

Num

8

MRSRCFMT.

Mortality Source: Death Certificate Match

14

MORTSRCE_DCL

Num

8

MRSRCFMT.

Mortality Source: Data Collection

10

MORTSRCE_NDI

Num

8

MRSRCFMT.

Mortality Source: NDI Match

12

MORTSRCE_SSA

Num

8

MRSRCFMT.

Mortality Source: SSA Information

3

MORTSTAT

Num

8

MORTFMT.

Final Mortality Status

9

PERMTH_EXM

Num

8

Person Months of Follow-up from MEC/Exam Date

8

PERMTH_INT

Num

8

Person Months of Follow-up from Interview Date

1

SEQN

Num

8

NHANES Respondent Sequence Number

5

UCOD_LEADING

Char

3

\$UCODFMT.

Underlying Cause of Death Recode from UCOD_113 Leading Causes

NHANES PUBLIC-USE LINKED MORTALITY FILE

UNWEIGHTED FREQUENCIES

The FREQ Procedure

Eligibility Status for Mortality Follow-up

ELIGSTAT

Frequency

Percent

CumulativeFrequency

CumulativePercent

Eligible

19592

57.63

19592

57.63

Under age 18

14377

42.29

33969

99.93

Ineligible

25

0.07

33994

100.00

Final Mortality Status

MORTSTAT

Frequency

Percent

CumulativeFrequency

CumulativePercent

Ineligible or under age 18

14402

42.37

14402

42.37

Assumed alive

12931

38.04

27333

80.41

Assumed deceased

6661

19.59

33994

100.00

Underlying Cause of Death Recode from UCOD_113 Leading Causes

UCOD_LEADING

Frequency

Percent

CumulativeFrequency

CumulativePercent

Ineligible, under age 18, assumed alive or no cause data

27403

80.61

27403

80.61

Diseases of heart (I00-I09, I11, I13, I20-I51)

1711

5.03

29114

85.64

Malignant neoplasms (C00-C97)

1388

4.08

30502

89.73

Chronic lower respiratory diseases (J40-J47)

287

0.84

30789

90.57

Accidents (unintentional injuries) (V01-X59, Y85-Y86)

170

0.50

30959

91.07

Cerebrovascular diseases (I60-I69)

492

1.45

31451

92.52

Alzheimer's disease (G30)

141

0.41

31592

92.93

Diabetes mellitus (E10-E14)

234

0.69

31826

93.62

Influenza and pneumonia (J09-J18)

213
 0.63
 32039
 94.25
 Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)
 101
 0.30
 32140
 94.55
 All other causes (residual)
 1854
 5.45
 33994
 100.00
 Cause of Death Data Available
 CAUSEAVL
 Frequency
 Percent
 CumulativeFrequency
 CumulativePercent
 Ineligible, under age 18 or assumed alive
 27333
 80.41
 27333
 80.41
 No
 70
 0.21
 27403
 80.61
 Yes

6591
19.39
33994
100.00
Diabetes flag from multiple cause of death
DIABETES
Frequency
Percent
CumulativeFrequency
CumulativePercent
Ineligible, under age 18, assumed alive or no cause data
27403
80.61
27403
80.61
No
5810
17.09
33213
97.70
Yes
781
2.30
33994
100.00
Hypertension flag from multiple cause of death
HYPERTEN
Frequency
Percent
CumulativeFrequency
CumulativePercent

Ineligible, under age 18, assumed alive or no cause data

27403

80.61

27403

80.61

No

5793

17.04

33196

97.65

Yes

798

2.35

33994

100.00

Mortality Source: NDI Match

MORTSRCE_NDI

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

27398

80.60

27398

80.60

Yes

6596

19.40

33994

100.00

Mortality Source: CMS Information

MORTSRCE_CMS

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

30892

90.87

30892

90.87

Yes

3102

9.13

33994

100.00

Mortality Source: SSA Information

MORTSRCE_SSA

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

28497

83.83

28497

83.83

Yes

5497

16.17

33994

100.00
 Mortality Source: Death Certificate Match
 MORTSRCE_DC
 Frequency
 Percent
 CumulativeFrequency
 CumulativePercent
 .
 31502
 92.67
 31502
 92.67
 Yes
 2492
 7.33
 33994
 100.00
 Mortality Source: Data Collection
 MORTSRCE_DCL
 Frequency
 Percent
 CumulativeFrequency
 CumulativePercent
 .
 33994
 100.00
 33994
 100.00
 Person Months of Follow-up from Interview Date
 PERMTH_INT
 Frequency

Percent
CumulativeFrequency
CumulativePercent
.
14402
42.37
14402
42.37
0
10
0.03
14412
42.40
1
20
0.06
14432
42.45
2
27
0.08
14459
42.53
3
23
0.07
14482
42.60
4
24
0.07

14506
42.67
5
24
0.07
14530
42.74
6
32
0.09
14562
42.84
7
34
0.10
14596
42.94
8
22
0.06
14618
43.00
9
22
0.06
14640
43.07
10
30
0.09
14670

43.15
11
28
0.08
14698
43.24
12
31
0.09
14729
43.33
13
30
0.09
14759
43.42
14
30
0.09
14789
43.50
15
31
0.09
14820
43.60
16
39
0.11
14859
43.71

17
36
0.11
14895
43.82
18
33
0.10
14928
43.91
19
24
0.07
14952
43.98
20
22
0.06
14974
44.05
21
31
0.09
15005
44.14
22
27
0.08
15032
44.22
23

31
0.09
15063
44.31
24
23
0.07
15086
44.38
25
20
0.06
15106
44.44
26
42
0.12
15148
44.56
27
27
0.08
15175
44.64
28
31
0.09
15206
44.73
29
27

0.08
15233
44.81
30
23
0.07
15256
44.88
31
30
0.09
15286
44.97
32
32
0.09
15318
45.06
33
34
0.10
15352
45.16
34
28
0.08
15380
45.24
35
33
0.10

15413
45.34
36
32
0.09
15445
45.43
37
37
0.11
15482
45.54
38
26
0.08
15508
45.62
39
27
0.08
15535
45.70
40
28
0.08
15563
45.78
41
29
0.09
15592

45.87
42
37
0.11
15629
45.98
43
29
0.09
15658
46.06
44
33
0.10
15691
46.16
45
30
0.09
15721
46.25
46
32
0.09
15753
46.34
47
33
0.10
15786
46.44

48
39
0.11
15825
46.55
49
27
0.08
15852
46.63
50
29
0.09
15881
46.72
51
32
0.09
15913
46.81
52
32
0.09
15945
46.91
53
26
0.08
15971
46.98
54

37
0.11
16008
47.09
55
36
0.11
16044
47.20
56
25
0.07
16069
47.27
57
40
0.12
16109
47.39
58
32
0.09
16141
47.48
59
23
0.07
16164
47.55
60
33

0.10
16197
47.65
61
37
0.11
16234
47.76
62
25
0.07
16259
47.83
63
47
0.14
16306
47.97
64
27
0.08
16333
48.05
65
28
0.08
16361
48.13
66
33
0.10

16394
48.23
67
21
0.06
16415
48.29
68
24
0.07
16439
48.36
69
29
0.09
16468
48.44
70
39
0.11
16507
48.56
71
21
0.06
16528
48.62
72
23
0.07
16551

48.69
73
18
0.05
16569
48.74
74
22
0.06
16591
48.81
75
38
0.11
16629
48.92
76
41
0.12
16670
49.04
77
34
0.10
16704
49.14
78
28
0.08
16732
49.22

79
31
0.09
16763
49.31
80
30
0.09
16793
49.40
81
42
0.12
16835
49.52
82
24
0.07
16859
49.59
83
39
0.11
16898
49.71
84
38
0.11
16936
49.82
85

32
0.09
16968
49.91
86
23
0.07
16991
49.98
87
34
0.10
17025
50.08
88
37
0.11
17062
50.19
89
29
0.09
17091
50.28
90
24
0.07
17115
50.35
91
39

0.11
17154
50.46
92
24
0.07
17178
50.53
93
32
0.09
17210
50.63
94
27
0.08
17237
50.71
95
23
0.07
17260
50.77
96
26
0.08
17286
50.85
97
28
0.08

17314
50.93
98
33
0.10
17347
51.03
99
30
0.09
17377
51.12
100
27
0.08
17404
51.20
101
34
0.10
17438
51.30
102
35
0.10
17473
51.40
103
33
0.10
17506

51.50
104
36
0.11
17542
51.60
105
33
0.10
17575
51.70
106
21
0.06
17596
51.76
107
27
0.08
17623
51.84
108
25
0.07
17648
51.92
109
36
0.11
17684
52.02

110
35
0.10
17719
52.12
111
35
0.10
17754
52.23
112
35
0.10
17789
52.33
113
28
0.08
17817
52.41
114
36
0.11
17853
52.52
115
31
0.09
17884
52.61
116

23
0.07
17907
52.68
117
28
0.08
17935
52.76
118
26
0.08
17961
52.84
119
24
0.07
17985
52.91
120
33
0.10
18018
53.00
121
32
0.09
18050
53.10
122
30

0.09
18080
53.19
123
25
0.07
18105
53.26
124
26
0.08
18131
53.34
125
29
0.09
18160
53.42
126
34
0.10
18194
53.52
127
40
0.12
18234
53.64
128
28
0.08

18262
53.72
129
33
0.10
18295
53.82
130
37
0.11
18332
53.93
131
30
0.09
18362
54.02
132
31
0.09
18393
54.11
133
33
0.10
18426
54.20
134
26
0.08
18452

54.28
135
28
0.08
18480
54.36
136
29
0.09
18509
54.45
137
35
0.10
18544
54.55
138
24
0.07
18568
54.62
139
29
0.09
18597
54.71
140
20
0.06
18617
54.77

141
30
0.09
18647
54.85
142
36
0.11
18683
54.96
143
27
0.08
18710
55.04
144
35
0.10
18745
55.14
145
26
0.08
18771
55.22
146
29
0.09
18800
55.30
147

26
0.08
18826
55.38
148
31
0.09
18857
55.47
149
36
0.11
18893
55.58
150
29
0.09
18922
55.66
151
22
0.06
18944
55.73
152
31
0.09
18975
55.82
153
21

0.06
18996
55.88
154
28
0.08
19024
55.96
155
28
0.08
19052
56.05
156
27
0.08
19079
56.12
157
33
0.10
19112
56.22
158
23
0.07
19135
56.29
159
38
0.11

19173
56.40
160
27
0.08
19200
56.48
161
22
0.06
19222
56.55
162
19
0.06
19241
56.60
163
25
0.07
19266
56.67
164
24
0.07
19290
56.75
165
25
0.07
19315

56.82
166
24
0.07
19339
56.89
167
23
0.07
19362
56.96
168
26
0.08
19388
57.03
169
30
0.09
19418
57.12
170
22
0.06
19440
57.19
171
22
0.06
19462
57.25

172
23
0.07
19485
57.32
173
25
0.07
19510
57.39
174
35
0.10
19545
57.50
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```
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  outfile='mort.csv'
  dbms=csv
  replace;
run;
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<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">