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- NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)
- Licensed to AGENCY FOR HEALTHCARE RESEARCH & QUALITY, Site 0040776001.
- NOTE: This session is executing on the $\mathtt{WIN_PRO}$ platform.

NOTE: This installation is running Base SAS hot fix bundle 82BX08.

NOTE: AUTOEXEC processing beginning; file is C:\PROGRA~1\SASINS~1\SAS\V8\autoexec.sas.

1 ** C:\program files\sas institute\sas\v8\autoexec.sas ;

3 OPTIONS LS= 132 PS= 70 MERGENOBY=ERROR MSGLEVEL=i;

NOTE: AUTOEXEC processing completed.

```
1
2
3
         PROGRAM:
                      C:\MEPS\PROG\EXAMPLE_EM1.SAS
4
         DESCRIPTION: THIS EXAMPLE SHOWS HOW TO BUILD AN ANALYTIC FILE
5
6
                      AND CREATE NEW VARIABLES TO EXAMINE THE
7
                      RELATIONSHIP BETWEEN PERCEIVED HEALTH STATUS
8
                      AND A PERSON'S WEEKLY EARNINGS, WHERE WEEKLY
9
                      EARNINGS ARE THOSE OF THE CURRENT MAIN JOB.
10
11
                      PERSON-LEVEL RECORDS ARE DIVIDED INTO QUARTILES
12
                      BASED ON WEEKLY EARNINGS AND PERSON-LEVEL WEIGHTS.
13
                      THE RESULT IS 4 EQUALLY WEIGHTED QUARTILES FOR
14
                      WEEKLY EARNINGS.
15
16
         INPUT FILE:
                         C:\MEPS\DATA\H62.SAS7BDAT (2002 FULL-YEAR POPULATION)
17
                            -- PERSON-LEVEL FILE
18
         19
20
21
         LIBNAME CMEPS V8 'C:\MEPS\DATA' ;
NOTE: Libref CMEPS was successfully assigned as follows:
     Engine:
                 V8
     Physical Name: C:\MEPS\DATA
22
23
         FOOTNOTE 'PROGRAM: C:\MEPS\PROG\EXAMPLE_EM1.SAS';
24
25
         TITLE1 'AHRQ MEPS DATA USERS WORKSHOP (EMPLOYMENT) -- NOV/DEC 2004';
26
         TITLE2 'PERCEIVED HEALTH STATUS AND WEEKLY EARNINGS - 2002 DATA';
27
         TITLE3 ' ';
28
29
        PROC FORMAT;
30
           VALUE GTZF
31
           -10 = '-10'
32
           0<-HIGH = '>0';
NOTE: Format GTZF has been output.
33
           VALUE HLTHF
34
           1 = '1 EXCELLENT'
35
            2 = '2 VERY GOOD'
36
            3 = '3 GOOD'
```

37		4	=	14	1 F7	AIR'			
38		5	=	1	5 PC	OOR';			
NOTE:	Format	HL	ГНЕ	r ł	nas	been	out	put	
39		V	ALU	JE	QUA	ARTF			
40		1	=	1	1	LOWE	EST	'	
41		2	=	1	2	2		'	
42		3	=	1	3	3		'	
43		4	=	1	4	1 HIGH	HEST	:';	
NOTE:	Format	QU	ARI	F	has	beer	n ou	ıtpu	t.
44		V	ALU	JE	WKI	LYF			

0.13-<49.99 = ' 0.13 - 49.99' 45 50-499.99 = ' 50.00 - 499.99' 46 500-999.99 = ' 500.00 - 999.99' 47 48 1000-HIGH = '1,000.00+ '; NOTE: Format WKLYF has been output. 49 RUN; 50 51 /***** THIS DATA STEP READS IN THE REQUIRED VARIABLES FROM THE *****/ /***** FULL-YEAR POPULATION FILE (HC-062). *****/ 52 53 /***** THE 'WHERE' STATEMENT SUBSETS TO THE DESIRED SUBSET OF *****/ 54 55 /***** PERSONS: THOSE WITH A CURRENT MAIN JOB (CMJ) IN ROUNDS *****/ /***** 4/2 THAT REPORTED EARNINGS, WEEKLY HOURS AND PERCEIVED *****/ 56 ****/ /***** HEALTH STATUS. 57 58 *****/ /***** A VALUE OF "-2" FOR THE '42' VARIABLES INDICATES THAT 59 60 /***** THE ACTUAL VALUE CAN BE OBTAINED FROM THE PRIOR ROUND, ****/ ****/ 61 /***** THE '31' VARIABLES. 62 /***** A WEEKLY EARNINGS VARIABLE "WKLYEARN' IS CREATED AS ****/ 63 /***** THE PRODUCE OF HOURLY WAGE ("HRLYWAGE") TIMES NUMBER *****/ 64 65 /***** OF WEEKLY WORK HOURS ("HOURS"). ****/ 66 67 DATA H62A; SET CMEPS.H62 (KEEP= DUPERSID PERWT02P VARSTR VARPSU EMPST42 68 69 SELFCM42 SELFCM31 HRWG42X HRWG31X HOUR42 HOUR31 70 RTHLTH42 TEMPJB42 AGE42X); 71 WHERE (EMPST42 IN (1,2)) AND 72 (SELFCM42 = 2 OR (SELFCM42 = -2 AND SELFCM31 = 2)) AND 73 ((HRWG42X = -10) OR (HRWG42X > 0) OR74 (HRWG42X = -2 AND (HRWG31X = -10 OR HRWG31X > 0))) AND75 (HOUR42 > 0 OR (HOUR42 = -2 AND HOUR31 > 0)) AND 76 (RTHLTH42 IN (1,2,3,4,5)) AND 77 (TEMPJB42 = 2) AND 78 (AGE42X > 24); 79 IF HRWG42X = -280 THEN HRLYWAGE = HRWG31X; 81 ELSE HRLYWAGE = HRWG42X; 82 IF HRLYWAGE = -1083 THEN HRLYWAGE = 61.98; 84 IF HOUR42 > 0 85 THEN HOURS = HOUR42; 86 ELSE IF HOUR42 = -287 THEN HOURS = HOUR31; 88 WKLYEARN = HRLYWAGE*HOURS; 89 RUN;

NOTE: There were 11882 observations read from the data set CMEPS.H62.

WHERE EMPST42 in (1, 2) and ((SELFCM42=2) or ((SELFCM42=-2) and (SELFCM31=2))) and ((HRWG42X=-10) or (HRWG42X>0) or ((HRWG42X=-2) and ((HRWG31X=-10) or (HRWG31X>0))) and ((HOUR42>0) or ((HOUR42=-2) and (HOUR31>0))) and RTHLTH42 in (1, 2, 3,

4, 5) and (TEMPJB42=2) and (AGE42X>24);

NOTE: The data set WORK.H62A has 11882 observations and 17 variables.

9091 PROC SORT DATA= H62A;

92 BY WKLYEARN ;

93 RUN;

NOTE: SAS sort was used.

NOTE: There were 11882 observations read from the data set WORK.H62A. NOTE: The data set WORK.H62A has 11882 observations and 17 variables.

94

95	/****	THIS D	DATA STEP	READS	IN H6	2A TWICE.	THE F	IRST TIME	IS	****/
96	/****	TO COM	APUTE THE	TOTAL	SUM C	F PERWT02	O (THE	PERSON-LI	EVEL	****/

97 /***** WEIGHT VARIABLE). THE SECOND TIME IS TO CREATE 4 GROUPS *****/

The SAS System /***** OF EQUAL WEIGHT: QUARTILE = 1-4. SEE THE TABLE ON LST *****/ 98 ****/ 99 /**** P. 5. 100 101 102 DATA H62B (KEEP= RTHLTH42 WKLYEARN OUARTILE PERWT02P VARSTR VARPSU); 103 SET H62A (IN= A) H62A ; 104 IF A 105 THEN TOT_WT+PERWT02P; 106 ELSE DO; 107 SUM WT+PERWT02P; IF SUM_WT <= TOT_WT*0.25 108 109 THEN QUARTILE = 1;ELSE IF SUM_WT <= TOT_WT*0.5 110 111 THEN QUARTILE = 2;112 ELSE IF SUM_WT <= TOT_WT*0.75 THEN QUARTILE = 3; 113 114 ELSE QUARTILE = 4;115 OUTPUT; 116 END; 117 LABEL QUARTILE = 'WEEKLY EARNINGS QUARTILE' 118 WKLYEARN = 'WEEKLY EARNINGS'; 119 RUN; NOTE: There were 11882 observations read from the data set WORK.H62A. NOTE: There were 11882 observations read from the data set WORK.H62A. NOTE: The data set WORK.H62B has 11882 observations and 6 variables. 120 121 TITLE4 'H62B: WEIGHTED FREQUENCY OF QUARTILES AND WKLYEARN'; 122 123 PROC FREO DATA= H62B; 124 TABLES QUARTILE WKLYEARN; WEIGHT PERWT02P; 125 126 FORMAT WKLYEARN WKLYF. ; 127 RUN; NOTE: There were 11882 observations read from the data set WORK.H62B. NOTE: The PROCEDURE FREQ printed page 1. 128 129 TITLE4 'H62B: UNWEIGHTED FREQUENCY OF WKLYEARN'; 130 131 PROC FREQ DATA= H62B; 132 TABLES WKLYEARN; 133 FORMAT WKLYEARN WKLYF. ; 134 RUN;

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NOTE: There were 11882 observations read from the data set WORK.H62B. NOTE: The PROCEDURE FREQ printed page 2.

135 136 TITLE4 ' '; 137 138 PROC FREQ DATA= H62B;

- / LIST MISSING ;
- 139
 TABLES QUARTILE*RTHLTH42

 140
 / LIST MISSING;

 141
 FORMAT RTHLTH42 HLTHF.;

 142
 RUN;

NOTE: There were 11882 observations read from the data set WORK.H62B. NOTE: The PROCEDURE FREQ printed page 3.

- International Problem146CLASS QUARTILE RTHLTH42;146TABLE QUARTILE, RTHLTH42*(1)147FORMAT QUARTILE OUADET148FREO DET TABLE QUARTILE,RTHLTH42*(PCTN<RTHLTH42>);
- FORMAT QUARTILE QUARTF. RTHLTH42 HLTHF. ;

4

The SAS System

149 WEIGHT PERWT02P;

150 RUN;

NOTE: There were 11882 observations read from the data set WORK.H62B. NOTE: The PROCEDURE TABULATE printed page 4.

151

152 TITLE4 'MEAN REPORTED HEALTH STATUS BY WEEKLY EARNINGS QUARTILE';

153 TITLE5 '1=EXCELLENT, 2=VERY GOOD, 3=GOOD, 4=FAIR, 5=POOR';

154

155 PROC SURVEYMEANS DATA= H62B NOBS SUMWGT MEAN STDERR;

156 VAR RTHLTH42;

157 STRATA VARSTR;

158 CLUSTER VARPSU;

159 WEIGHT PERWT02P;

160 DOMAIN QUARTILE;

161 FORMAT QUARTILE QUARTF. ;

162 RUN;

NOTE: Due to nonpositive weights, 429 observation(s) were deleted.

NOTE: Only one cluster in a stratum in domain QUARTILE for variable(s) RTHLTH42. The variance of RTHLTH42 in that stratum is estimated by zero.

NOTE: There were 11882 observations read from the data set WORK.H62B.

NOTE: The PROCEDURE SURVEYMEANS printed page 5.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

AHRQ MEPS DATA USERS WORKSHOP (EMPLOYMENT) -- NOV/DEC 2004 PERCEIVED HEALTH STATUS AND WEEKLY EARNINGS - 2002 DATA 11:14 Sunday, November 21, 2004

H62B: WEIGHTED FREQUENCY OF QUARTILES AND WKLYEARN

The FREQ Procedure

WEEKLY EARNINGS QUARTILE

			Cumulative	Cumulative
QUARTILE	Frequency	Percent	Frequency	Percent
1	24,691,520	25.0	24,691,520	25.0
2	24,691,126	25.0	49,382,646	50.0
3	24,687,804	25.0	74,070,450	75.0
4	24,696,042	25.0	98,766,492	100.0

WEEKLY EARNINGS

WKLYEARN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0.13 - 49.99	1,557,396	1.6	1,557,396	1.6
50.00 - 499.99	38,403,334	38.9	39,960,730	40.5
500.00 - 999.99	36,501,086	37.0	76,461,816	77.4
1,000.00+	22,304,676	22.6	98,766,492	100.0

PROGRAM: C:\MEPS\PROG\EXAMPLE_EM1.SAS AHRQ MEPS DATA USERS WORKSHOP (EMPLOYMENT) -- NOV/DEC 2004 PERCEIVED HEALTH STATUS AND WEEKLY EARNINGS - 2002 DATA

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H62B: UNWEIGHTED FREQUENCY OF WKLYEARN

The FREQ Procedure

WEEKLY EARNINGS

WKLYEARN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0.13 - 49.99	199	1.7	199	1.7
50.00 - 499.99	5,308	44.7	5,507	46.3
500.00 - 999.99	4,124	34.7	9,631	81.1
1,000.00+	2,251	18.9	11,882	100.0

PROGRAM: C:\MEPS\PROG\EXAMPLE_EM1.SAS AHRQ MEPS DATA USERS WORKSHOP (EMPLOYMENT) -- NOV/DEC 2004 PERCEIVED HEALTH STATUS AND WEEKLY EARNINGS - 2002 DATA

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The FREQ Procedure

	4.0	_	_		Cumulative
	RTHLTH42				
1				733	
1	2 VERY GOOD	1191	10.02	1924	16.19
1	3 GOOD	1139	9.59	3063	25.78
1	4 FAIR	398	3.35	3461	29.13
1	5 POOR	50	0.42	3511	29.55
2	1 EXCELLENT	706	5.94	4217	35.49
2	2 VERY GOOD	1159	9.75	5376	45.24
2	3 GOOD	956	8.05	6332	53.29
2	4 FAIR	269	2.26	6601	55.55
2	5 POOR	36	0.30	6637	55.86
3	1 EXCELLENT	742	6.24	7379	62.10
3	2 VERY GOOD	1092	9.19	8471	71.29
3	3 GOOD	735	6.19	9206	77.48
3	4 FAIR	170	1.43	9376	78.91
3	5 POOR	20	0.17	9396	79.08
4	1 EXCELLENT	782	6.58	10178	85.66
4	2 VERY GOOD	990	8.33	11168	93.99
4	3 GOOD	582	4.90	11750	98.89
4	4 FAIR	116	0.98	11866	99.87
4	5 POOR	16	0.13	11882	100.00

 	PERCEIVED HEALTH STATUS - RD 4/2						
	1 EXCELLENT	2 VERY GOOD	3 GOOD	4 FAIR	5 POOR		
 	PctN	PctN	PctN	PctN	PctN		
 WEEKLY EARNINGS QUARTILE							
1 LOWEST	21.80	36.18	31.06	9.64	1.33		
2	22.96	38.52	29.34	8.18	0.99		
3	27.51	40.09	26.20	5.67	0.54		
4 HIGHEST	32.31	39.99	22.61	4.43	0.66		

PROGRAM: C:\MEPS\PROG\EXAMPLE_EM1.SAS AHRQ MEPS DATA USERS WORKSHOP (EMPLOYMENT) -- NOV/DEC 2004 PERCEIVED HEALTH STATUS AND WEEKLY EARNINGS - 2002 DATA 11:1-

5 11:14 Sunday, November 21, 2004

MEAN REPORTED HEALTH STATUS BY WEEKLY EARNINGS QUARTILE 1=EXCELLENT, 2=VERY GOOD, 3=GOOD, 4=FAIR, 5=POOR

The SURVEYMEANS Procedure

Data Summary

Number of Strata	203
Number of Clusters	445
Number of Observations	11882
Number of Observations Used	11453
Number of Obs with Nonpositive Weights	429
Sum of Weights	98766491.9

Statistics

Variable	Label	N	Sum of Weights	Mean	Std Error of Mean
RTHLTH42	PERCEIVED HEALTH STATUS - RD 4/2	11453	98766492	2.177565	0.012317

Domain Analysis: QUARTILE

QUARTILE	Variable	Label	N	Sum of Weights	Mean	Std Error of Mean
1 LOWEST	RTHLTH42	PERCEIVED HEALTH STATUS - RD 4/2	3394	24691520	2.325160	0.021478
2	RTHLTH42	PERCEIVED HEALTH STATUS - RD 4/2	2990	24691126	2.257211	0.022077
3	RTHLTH42	PERCEIVED HEALTH STATUS - RD 4/2	2660	24687804	2.116474	0.019022
4 HIGHEST	RTHLTH42	PERCEIVED HEALTH STATUS - RD 4/2	2409	24696042	2.011436	0.019907

PROGRAM: C:\MEPS\PROG\EXAMPLE_EM1.SAS