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\*

\*PROGRAM: C:\MEPS\STATA\PROG\EXERCISE3.do

\*

\*DESCRIPTION: THIS PROGRAM ILLUSTRATES HOW TO CONSTRUCT FAMILY-LEVEL VARIABLES FROM PERSON-LEVEL DATA

\*

\* THERE ARE TWO DEFINITIONS OF FAMILY UNIT IN MEPS.

\* 1) CPS FAMILY: ID IS DUID + CPSFAMID. CORRESPONDING WEIGHT IS FAMWT14C.

\* 2) MEPS FAMILY: ID IS DUID + FAMIDYR. CORRESPONDING WEIGHT IS FAMWT14F.

\*

\* THE CPS FAMILY IS USED IN THIS EXERCISE.

\*

\*INPUT FILE: C:\MEPS\STATA\DATA\H171.dta (2014 FY PUF DATA)

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

clear

set more off

capture log close

/\*log using c:\meps\stata\prog\exercise3.log, replace

cd c:\meps\stata\data\*/

log using \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise3.log, replace

cd \\files.s-3.com\HPDA\AHRQ\Fang\bj001

use dupersid duid cpsfamid famwt14c varstr varpsu totslf14 ttlp14x using h171

sort duid cpsfamid

list duid cpsfamid totslf14 ttlp14x in 1/20

by duid cpsfamid: egen famoop=sum(totslf14)

by duid cpsfamid: egen faminc=sum(ttlp14x)

by duid cpsfamid: gen famsize=\_N

list duid cpsfamid famwt14c famsize famoop faminc totslf14 ttlp14x in 1/20

sort duid cpsfamid famwt14c

by duid cpsfamid: keep if \_n==\_N

list duid cpsfamid famwt14c famsize famoop faminc in 1/20

tabmiss famsize famoop faminc

keep if famwt14c>0

svyset [pweight= famwt14c], strata( varstr) psu(varpsu) vce(linearized) singleunit(missing)

svy: mean famsize famoop faminc

log close

exit, clear

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name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise3.log

log type: text

opened on: 22 Feb 2017, 14:29:02

. cd \\files.s-3.com\HPDA\AHRQ\Fang\bj001

\\files.s-3.com\HPDA\AHRQ\Fang\bj001

.

. use dupersid duid cpsfamid famwt14c varstr varpsu totslf14 ttlp14x using h171

.

. sort duid cpsfamid

. list duid cpsfamid totslf14 ttlp14x in 1/20

+---------------------------------------+

| duid cpsfamid totslf14 ttlp14x |

|---------------------------------------|

1. | 40001 A 152 56000 |

2. | 40001 A 89 0 |

3. | 40001 A 135 0 |

4. | 40001 A 165 12000 |

5. | 40002 A 2 27030 |

|---------------------------------------|

6. | 40004 A 12 0 |

7. | 40004 A 0 0 |

8. | 40004 A 0 0 |

9. | 40004 A 0 12000 |

10. | 40004 A 141 0 |

|---------------------------------------|

11. | 40004 A 80 0 |

12. | 40004 A 159 0 |

13. | 40004 A 0 0 |

14. | 40005 A 2919 39945 |

15. | 40009 A 52 34031 |

|---------------------------------------|

16. | 40010 A 614 84000 |

17. | 40010 A 40 56000 |

18. | 40010 A 56 0 |

19. | 40010 A 210 0 |

20. | 40011 A 0 21000 |

+---------------------------------------+

.

. by duid cpsfamid: egen famoop=sum(totslf14)

. by duid cpsfamid: egen faminc=sum(ttlp14x)

. by duid cpsfamid: gen famsize=\_N

.

. list duid cpsfamid famwt14c famsize famoop faminc totslf14 ttlp14x in 1/20

+---------------------------------------------------------------------------------+

| duid cpsfamid famwt14c famsize famoop faminc totslf14 ttlp14x |

|---------------------------------------------------------------------------------|

1. | 40001 A 6540.855033 4 541 68000 152 56000 |

2. | 40001 A 6540.855033 4 541 68000 89 0 |

3. | 40001 A 6540.855033 4 541 68000 135 0 |

4. | 40001 A 6540.855033 4 541 68000 165 12000 |

5. | 40002 A 8827.999691 1 2 27030 2 27030 |

|---------------------------------------------------------------------------------|

6. | 40004 A 3883.956829 8 392 12000 12 0 |

7. | 40004 A 3883.956829 8 392 12000 0 0 |

8. | 40004 A 3883.956829 8 392 12000 0 0 |

9. | 40004 A 3883.956829 8 392 12000 0 12000 |

10. | 40004 A 3883.956829 8 392 12000 141 0 |

|---------------------------------------------------------------------------------|

11. | 40004 A 3883.956829 8 392 12000 80 0 |

12. | 40004 A 3883.956829 8 392 12000 159 0 |

13. | 40004 A 0 8 392 12000 0 0 |

14. | 40005 A 4676.866677 1 2919 39945 2919 39945 |

15. | 40009 A 5826.471609 1 52 34031 52 34031 |

|---------------------------------------------------------------------------------|

16. | 40010 A 7601.435978 4 920 140000 614 84000 |

17. | 40010 A 7601.435978 4 920 140000 40 56000 |

18. | 40010 A 7601.435978 4 920 140000 56 0 |

19. | 40010 A 7601.435978 4 920 140000 210 0 |

20. | 40011 A 4747.996871 4 0 22500 0 21000 |

+---------------------------------------------------------------------------------+

.

. sort duid cpsfamid famwt14c

. by duid cpsfamid: keep if \_n==\_N

(19,875 observations deleted)

.

. list duid cpsfamid famwt14c famsize famoop faminc in 1/20

+------------------------------------------------------------+

| duid cpsfamid famwt14c famsize famoop faminc |

|------------------------------------------------------------|

1. | 40001 A 6540.855033 4 541 68000 |

2. | 40002 A 8827.999691 1 2 27030 |

3. | 40004 A 3883.956829 8 392 12000 |

4. | 40005 A 4676.866677 1 2919 39945 |

5. | 40009 A 5826.471609 1 52 34031 |

|------------------------------------------------------------|

6. | 40010 A 7601.435978 4 920 140000 |

7. | 40011 A 4747.996871 4 0 22500 |

8. | 40012 A 13579.43163 4 177 193561 |

9. | 40014 A 5232.952108 1 954 0 |

10. | 40014 B 6675.632912 1 5 14720 |

|------------------------------------------------------------|

11. | 40014 C 5180.243832 1 2 0 |

12. | 40015 A 19589.16423 3 2275 99945 |

13. | 40016 A 4050.439479 3 21 13200 |

14. | 40017 A 22006.18378 3 648 200000 |

15. | 40019 A 3638.43409 5 833 85536 |

|------------------------------------------------------------|

16. | 40020 A 12530.81738 5 1941 47881 |

17. | 40021 A 4682.935416 4 782 20800 |

18. | 40022 A 1887.677514 1 0 17000 |

19. | 40022 B 5843.593601 4 37 50000 |

20. | 40023 A 6209.294748 4 3417 82800 |

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.

. tabmiss famsize famoop faminc

Variable | Obs Missings Feq.Missings NonMiss Feq.NonMiss

-------------+---------------------------------------------------------------

famsize | 15000 0 0 15000 100

famoop | 15000 0 0 15000 100

faminc | 15000 0 0 15000 100

.

. keep if famwt14c>0

(867 observations deleted)

. svyset [pweight= famwt14c], strata( varstr) psu(varpsu) vce(linearized) singleunit(missing)

pweight: famwt14c

VCE: linearized

Single unit: missing

Strata 1: varstr

SU 1: varpsu

FPC 1: <zero>

. svy: mean famsize famoop faminc

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 165 Number of obs = 14,133

Number of PSUs = 365 Population size = 140,282,371

Design df = 200

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| Linearized

| Mean Std. Err. [95% Conf. Interval]

-------------+------------------------------------------------

famsize | 2.221791 .0205013 2.181364 2.262217

famoop | 1279.595 28.96032 1222.488 1336.702

faminc | 63373.64 1015.978 61370.24 65377.05

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. log close

name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise3.log

log type: text

closed on: 22 Feb 2017, 14:30:33

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