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Subject: Using svy: tab

Posted by [lexgw](#) on Fri, 23 Oct 2015 15:03:59 GMT

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Dear all, I am trying to learn how to run descriptive statistics in stata in order to replicate Uganda DHS 2011 statics on women and child health. I have two questions for help;

1. There are two ways of attaching weights to the variables and then tab:

```
gen wgt=v005/1000000
```

```
tab v025 [iweight=wgt]
```

This has worked and produced an output

```
type of |  
place of |  
residence |   Freq.   Percent   Cum.  
-----+-----  
urban | 1,717.2704    19.80    19.80  
rural | 6,956.7296    80.20   100.00  
-----+-----  
Total | 8,673.9999   100.00
```

Another method (recommended in DHS videos) is set for survey data and then tab

```
gen wgt=v005/1000000
```

```
svyset[pw=wgt], psu(v021) strata(v022) singleunit(centered)
```

```
svy:tab v025
```

this has not worked

```
pweight: wgt
```

```
VCE: linearized
```

```
Single unit: centered
```

```
Strata 1: v022
```

```
SU 1: v021
```

```
FPC 1: <zero>
```

```
. svy:tab v025
```

```
no observations
```

```
r(2000);
```

What could be the problem?

2. which variables are suitable to capture child health and which data file is suitable to use to get these variables?

Gabriel

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Subject: Re: Using svy: tab

Posted by [Trevor-DHS](#) on Mon, 26 Oct 2015 18:42:26 GMT

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1) Neither variable v022 nor v023 have been set in the Uganda DHS 2011 dataset. In appendix A of the report it can be seen that the strata were urban and rural areas in each region, so you can set v022 and v023 as follows:

```
egen strata = group(v024 v025)
replace v022 = strata
replace v023 = strata
```

Then run the svyset and svy:tab commands to produce the results.

2) You should use the dataset that matches the unit of analysis that you wish to use. If you are looking at child health, I expect that you will want to analyze children under the age of 5, in which case you should work with the children's recode (KR) file.

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Subject: Re: Using svy: tab

Posted by [lexgw](#) on Tue, 27 Oct 2015 16:18:30 GMT

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Thanks so much Trevor. Let me try it out..and will get back at some point.

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Subject: Re: Using svy: tab

Posted by [lexgw](#) on Sun, 08 Nov 2015 21:28:19 GMT

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Hello,

In connection to the question I asked previously, I am able to replicate DHS 2011 statistics on child health for Uganda. But this is only when it is a one way tabulation (just one variable). When I make a two-way tabulation (with two variables) I do not replicate DHS statistics. I need help. For example, I generated an ARI variable when I tab it I get correct results but when I tab it with v024 (region), I do not get the figures in table 10.5 DHS report 2011 for Uganda page 129. This is what I get;

I generate ARI variable only for live children only (b5==1)

```
. gen ari=0 if b5==1
```

(1299 missing values generated)

```
. *ARI is defined as children with a cough with short rapid breaths (h31b==1) or/and congestion in the chest/blocked or runny nose
```

```
> (h31c==1 | h31c==3)*/
```

```
. replace ari=1 if b5==1 & h31b==1 & (h31c==1 | h31c==3)/ *1 is for chest only 3 is for both chest & blocked nose*/
```

(2156 real changes made)

---

. svy: tab ari if survey==1  
(running tabulate on estimation sample)

Number of strata = 19                      Number of obs = 7355  
Number of PSUs = 404                      Population size = 7535.3926  
Design df = 385

-----	
ari   proportions	
-----+-----	
0	.8516
1	.1484
Total	1
-----	

Key: proportions = cell proportions  
This seems fine because the report is talking about 15% of children with symptoms of ARI. but for the two I can replicate eg;  
svy: tab v024 ari if survey==1  
(running tabulate on estimation sample)

Number of strata = 19                      Number of obs = 7355  
Number of PSUs = 404                      Population size = 7535.3926  
Design df = 385

-----			
	ari		
region	0	1	Total
-----+-----			
kampala	.0533	.0086	.062
central	.0894	.0092	.0987
central	.0928	.0125	.1054
east cen	.096	.0171	.1131
eastern	.1419	.0284	.1704
north	.0691	.0196	.0887
karamoja	.0298	.0075	.0373
west-nil	.0509	.0083	.0592
western	.1211	.0244	.1454
southwes	.1072	.0127	.1199
Total	.8516	.1484	1
-----			

Key: cell proportions

Pearson:  
Uncorrected chi2(9) = 75.4301  
Design-based F(7.78, 2996.03)= 3.4660 P = 0.0006

This is different from what is in table 10.5 page 129

svy: tab v106 ari if survey==1

(running tabulate on estimation sample)

Number of strata	=	19	Number of obs	=	7355
Number of PSUs	=	404	Population size	=	7535.3926
		Design df	=	385	

```
-----
highest |
education |      ari
al level |    0    1 Total
-----+-----
no educa | .1219 .0216 .1435
primary | .5357 .1002 .6359
secondar | .1627 .0222 .1849
higher   | .0312 .0044 .0356
        |
Total   | .8516 .1484    1
-----
```

Key: cell proportions

Still different!! need help. thanks

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Subject: Re: Using svy: tab

Posted by [Trevor-DHS](#) on Thu, 03 Dec 2015 17:55:20 GMT

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You are getting cell proportions. Just add ", row" to your svy: tab commands to get row proportions

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Subject: Re: Using svy: tab

Posted by [lexgw](#) on Thu, 03 Dec 2015 18:21:01 GMT

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Thanks dear Trevor for the detailed description of the procedure. Will get back any time in case...  
thanks

Gabriel

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