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Subject: Community level variable  
Posted by [saifulhaq](#) on Fri, 16 Oct 2020 09:39:26 GMT  
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Hello,  
Can any one tell how to create community level variable using individual level variable on STATA. Please share do.file because i am clueless on how to generate community level variables using STATA. Your help shall be a huge contribution.  
Looking forward,

Saif  
Pakistan.

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Subject: Re: Community level variable  
Posted by [Bridgette-DHS](#) on Fri, 16 Oct 2020 14:19:38 GMT  
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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

There have been some earlier postings on this topic. For the most part you can do what you want with variations on the "egen" command. For example if you want to construct a variable that is the proportion of women in the cluster who have no secondary schooling, you could use these commands: "gen no\_school=0; replace no\_school=1 if v106==0; egen no\_school\_prop=rowmean(no\_school, by(v001)).

I suggest you enter "help egen" and then look at the commands for which "by" is allowed. To get a cluster-level variable you use "by(v001)".

The clusters are often treated as villages or neighborhoods or communities, but of course they are actually census enumeration areas and their boundaries may or may not be appropriate for this interpretation.

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Subject: Re: Community level variable  
Posted by [Varsha](#) on Sun, 15 Nov 2020 12:49:46 GMT  
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Hello.  
I want to calculate maternal autonomy at the community level. I have created 3 measures of individual maternal autonomy using the information on the extent to which a woman participates in the decision-making process regarding:

1. her own health,
2. visiting family members and friends, and

### 3. how to use money that the husband earns

I have assigned a value of 0 if the response was 'respondent alone' and 'husband and respondent', and -1 otherwise. How can I calculate the proportion of women per PSU scoring a value of 0?

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Subject: Re: Community level variable

Posted by [Bridgette-DHS](#) on Wed, 18 Nov 2020 19:27:59 GMT

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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

You scored this variable to be either 0 or -1? Do you mean 1 and 0? Usually a binary variable is coded 1 for yes and 0 for no.

The mean of a binary variable  $x$  is the proportion of cases that are coded 1.

If you want to get that proportion (or the mean of  $x$ ) within clusters the command is "egen  $X=\text{mean}(x)$ , by(v001)". The PSU is given by v001 or v021.

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