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Subject: Merging IR, KR and HR files

Posted by [Aarthi1410](#) on Mon, 05 Aug 2024 16:46:10 GMT

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I am trying to merge datasets for DHS India 2015-16 and 2019-21. I need variables from all three files since there are mother's education levels employment status and ownership of land/house included as controls which I am planning to include in my analysis. I use the following codes to merge the three for both rounds. For 2015-16, the code works fine, however for 2019-21, when I merge the IR and KR files `_merge == 3` is only 333 and when I finally merge the HR file the total observation for mother's education and employment is approximately 2000. Is there some other way to merge in a correct manner?

```
use "${cleaned}\cleaned_household_2015",clear
```

```
gen cluster=hv001
gen hh=hv002
sort cluster hh
save HH_2015temp.dta, replace
```

```
use "${cleaned}\cleaned_women_2015", clear
gen cluster=v001
gen hh=v002
gen mo_line=v003
sort cluster hh mo_line
save women2015_temp.dta, replace
```

```
use "${cleaned}\cleaned_children_2015", clear
gen cluster=v001
gen hh=v002
gen mo_line=v003
```

```
sort cluster hh mo_line
quietly merge cluster hh mo_line using women2015_temp.dta
tab _merge
keep if _merge==3
drop _merge
```

```
* Merge the child and mother with the household data
sort cluster hh
quietly merge cluster hh using HH_2015temp.dta
tab _merge
keep if _merge==3
drop _merge
```

Subject: Re: Merging IR, KR and HR files  
Posted by [Bridgette-DHS](#) on Tue, 06 Aug 2024 20:00:10 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

You would only do this kind of merge if you need IR and HR variables that are not already in the KR file. That seems to be your situation. The Stata program below will do this merge. Let us know if you have questions about it.

- \* Merge needed variables from the HR and IR files onto the KR file
- \* This illustrative example just adds one HR variable and some v75\* variables
- \* from the IR file. You would add other variables.

\* Illustrated with NFHS-5

\* Specify workspace  
cd e:\DHS\DHS\_data\scratch

\* Prepare HR file  
use "...IAHR7EFL.DTA", clear  
rename hv001 cluster  
rename hv002 hh

\* keep the merging variables and other needed HR variables  
keep cluster hh hv201  
save HRtemp.dta, replace

\* Prepare IR file  
use "...IAIR7EFL.DTA", clear  
rename v001 cluster  
rename v002 hh  
rename v003 line  
\*keep the merging variables and other needed IR variables  
keep cluster hh line v75\*  
save IRtemp.dta, replace

\* Prepare KR file  
use "...IAKR7EFL.DTA", clear  
rename v001 cluster  
rename v002 hh  
rename v003 line

\* keep just the merging variables  
keep cluster hh line  
save KRtemp.dta, replace

\* Do the merge, starting with KR, then adding IR and HR

use KRtemp.dta, clear

\* m:1 because many children to one woman  
merge m:1 cluster hh line using IRtemp.dta  
tab \_merge

\* \_merge=2 for women in the IR file who do not have a child in the KR file  
keep if \_merge==3  
drop \_merge

\* m:1 because many children to one household  
merge m:1 cluster hh using HRtemp.dta  
tab \_merge

\* \_merge=2 for households in the HR file that do not have a child in the KR file  
keep if \_merge==3  
drop \_merge

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