
Subject: Re: Merging Birth's / Children's with Household Member Recode

Posted by [Joyeuse](#) on Wed, 13 Mar 2024 10:32:16 GMT

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Hi Trevor,

I have a question regarding merging PR and KR recodes. I am working with the Rwanda DHS 2019/20 dataset. My focus is on two aspects: household living arrangements (available in the PR recode) and child health indicators (available in the KR recode).

For the living arrangements, I utilized the STATA codes provided by DHS, which are accessible in the DHS indicators. I created a sub-sample based on these codes and subsequently merged it with the original PR recode.

Following this, I merged the newly created dataset with the KR recode. However, at the end of the merging process, I noticed that I am losing one category.

Could you please advise on how to resolve this issue?

Thank you

```
. tab cores_type
```

| cores_type | Freq. | Percent | Cum. |
|----------------------------|--------|---------|--------|
| -----+----- | | | |
| Living with both parents | 16,982 | 63.60 | 63.60 |
| With mother, not father | 6,046 | 22.64 | 86.24 |
| With father, not mother | 617 | 2.31 | 88.55 |
| Living with neither parent | 3,056 | 11.45 | 100.00 |
| -----+----- | | | |
| Total | 26,701 | 100.00 | |

and I have this after final merging

```
tab cores_type
```

| cores_type | Freq. | Percent | Cum. |
|----------------------------|-------|---------|--------|
| -----+----- | | | |
| Living with both parents | 5,620 | 75.05 | 75.05 |
| With mother, not father | 1,866 | 24.92 | 99.97 |
| Living with neither parent | 2 | 0.03 | 100.00 |
| -----+----- | | | |
| Total | 7,488 | 100.00 | |

these are the codes I used

preparation of household member recod (PR)

```
use "C:\Users\pc\Desktop\Rwanda_DHS_Data\RWPR81DT_Household members  
recode\RWPR81FL.DTA",clear
```

```
rename hvidx c_line  
rename hv001 cluster_line  
rename hv002 hh_line  
order c_line cluster_line hh_line  
save "C:\Users\pc\Desktop\Rwanda_DHS_Data\PR.dta", replace
```

preparation of children recod (KR)

```
use "C:\Users\pc\Desktop\Rwanda_DHS_Data\RWKR81DT_Children recode\RWKR81FL.DTA",  
clear
```

```
tab b16  
drop if b16==.  
drop if b16==0
```

```
rename b16 c_line  
rename v001 cluster_line  
rename v002 hh_line  
order c_line cluster_line hh_line  
save "C:\Users\pc\Desktop\Rwanda_DHS_Data\KR.dta", replace
```

****Creation of a sub_sample of variables from PR dataset to create ** Living arrangements ****

* Preparing files to produce the indicators, this required several merges

```
use "C:\Users\pc\Desktop\Rwanda_DHS_Data\RWPR81DT_Household members  
recode\RWPR81FL.DTA", replace  
keep hv001 hv002 hvidx hv005 hv009 hv024 hv025 hv101-hv105 hv111-hv114 hv270 hc60  
save PR_temp.dta, replace
```

* Prepare a file of potential mothers

```
use PR_temp.dta, clear  
drop if hv104==1  
drop if hv105<15  
keep hv001 hv002 hvidx hv102  
gen in_mothers=1  
rename hv102 hv102_mo  
rename hvidx hv112  
sort hv001 hv002 hv112  
save PR_temp_mothers.dta, replace
```

* Prepare a file of potential fathers

```
use PR_temp.dta, clear  
drop if hv104==2
```

```

drop if hv105<15
keep hv001 hv002 hvidx hv102
gen in_fathers=1
rename hv102 hv102_fa
rename hvidx hv114
sort hv001 hv002 hv114
save PR_temp_fathers.dta, replace

* Prepare file of children for merges
use PR_temp.dta, clear
drop if hv102==0
drop if hv105>17
gen in_children=1

* Merge children with potential mothers
sort hv001 hv002 hv112
merge hv001 hv002 hv112 using PR_temp_mothers.dta
rename _merge _merge_child_mother

* Merge children with potential fathers
sort hv001 hv002 hv114
merge hv001 hv002 hv114 using PR_temp_fathers.dta
rename _merge _merge_child_father
gen hv112r=hv112
gen hv114r=hv114

* Code 99 of the mother or father is not de jure
replace hv112r=99 if hv112>0 & hv102_mo==0
replace hv114r=99 if hv114>0 & hv102_fa==0
keep if in_children==1
drop in_*_merge*
label define HV112R 0 "Mother not in household" 99 "In hh but not de jure"
label define HV114R 0 "Father not in household" 99 "In hh but not de jure"
label values hv112r HV112R
label values hv114r HV114R
tab1 hv112r hv114r

gen cores_type=.
replace cores_type=1 if (hv112r>0 & hv112r<99) & (hv114r>0 & hv114r<99)
replace cores_type=2 if (hv112r>0 & hv112r<99) & (hv114r==0 | hv114r==99)
replace cores_type=3 if (hv112r==0 | hv112r==99) & (hv114r>0 & hv114r<99)
replace cores_type=4 if (hv112r==0 | hv112r==99) & (hv114r==0 | hv114r==99)
label define cores_type 1 "Living with both parents" 2 "With mother, not father" 3 "With father, not
mother" 4 "Living with neither parent"
label values cores_type cores_type
tab cores_type

```

***preparation for merging with PR recode**

```
rename hvidx c_line  
rename hv001 cluster_line  
rename hv002 hh_line  
order c_line cluster_line hh_line
```

FIRST MERGE: LIVING ARRANGEMENT + PR RECODE**

```
merge 1:1 c_line cluster_line hh_line using "C:\Users\pc\Desktop\Rwanda_DHS_Data\PR.dta",  
keep(match)  
drop _merge  
tab cores_type  
save "C:\Users\pc\Desktop\Rwanda_DHS_Data\RWPR81DT_Household members  
recode\PR_living arrangement.dta", replace
```

SECOND MERGE: ABOVE DATASET + CHILDREN RECODE

```
merge 1:1 c_line cluster_line hh_line using "C:\Users\pc\Desktop\Rwanda_DHS_Data\KR.dta",  
keep(match)  
drop _merge
```

```
save "C:\Users\pc\Desktop\Rwanda_DHS_Data\RWPR81DT_Household members  
recode\Joy_Final dataset_DHS_Project.dta", replace
```