
Subject: Inquiry regarding data merging with DHS 2018 using R (2)

Posted by [wojjae1995](#) on Thu, 09 Feb 2023 03:49:12 GMT

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Following to my other question, I have another issue with data merging using the Nigeria DHS 2018 household data (HR) and household members data (PR)

```
HRdata <- read_dta('NGHR7BFL.DTA')
PRdata <- read_dta('NGPR7BFL.DTA')
```

I have done the following :

```
1.
HRtemp <- HRdata %>%
  select(hv001, hv002, starts_with("hml10"))
HRmerge <- merge(HRtemp, PRdata, by = c("hv001", "hv002"))
HRmerge <- filter(HRmerge, hc1 >= 6 & hc1 <= 59)
```

This gives me 11590 observations for HRmerge

2.
Because I had to restrict the HR data to children of 6-59 months before I did the above merging as the following; I have tried this:

```
PRtemp = subset(PRdata, select=c(hv001, hv002, hc1), 'NA'= TRUE)
HRdata <- merge(HRdata, PRtemp, by=c("hv001", "hv002"))
HRdata <- filter(HRdata, hc1 >= 6, hc1 <= 59)
rm(PRtemp)
```

This will give me 11590 observations for HRdata

but then after I do the following merging to analyze another indicator as the following

```
HRmerge <- merge(HRtemp, PRdata, by = c("hv001", "hv002"))
HRmerge <- filter(HRmerge, hc1 >= 6 & hc1 <= 59)
```

Now I have 21802 observations for HRmerge.

From my understanding whether I merge with a data that I have filtered already, or I filter it after, I don't think it should be different.

How come when I merge differently, I get different numbers? Is it because I merged with the PR data twice and somehow there were duplicates included? How can I manage it then?

Subject: Re: Inquiry regarding data merging with DHS 2018 using R (2)

Posted by [Janet-DHS](#) on Fri, 10 Feb 2023 17:00:15 GMT

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Following is a response from DHS staff member, Tom Pullum:

You posted two related emails but I hope this response will help with both of them.

The PR file has one record for each household member. It is just a long version of the HR file, which has one (very wide) record for each household. If you want to select certain types of household members, in your case children age 6-59 months, you do this with the PR file. Each record in the PR file retains the information about the household as a whole, such as wealth quintile (hv270).

The child's age in months is given by hc1 in the PR file. You would select the cases with $hc1 \geq 6$ & $hc1 \leq 59$. To repeat, no merging is needed to get these cases.
