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Subject: How to link child health outcome with mothers' characteristics

Posted by [Asantie](#) on Sat, 01 Oct 2022 18:26:28 GMT

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Hello,

I am using the 2019 Ethiopian Mini DHS data to assess factors predicting child health outcomes. So I would like to merge child characteristics based on household members (PR) file to the characteristics of the specific mothers of the children based on women record (IR). I now how to merge simply PR files and IR files based on the identifier variables in IR(v001, v002, v003)and PR(hv001 hv002 hvidx)files. But I do not know how to merge the under 5 child's health outcome with characteristics of his/her mother (like age and mother's bmi etc) in the same row. Remember that one mother may have more than one under 5 child. So how can I link the information of children to their specific mothers correctly using PR and IR files?

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Subject: Re: How to link child health outcome with mothers' characteristics

Posted by [Bridgette-DHS](#) on Mon, 03 Oct 2022 13:53:13 GMT

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

You just need to merge the mothers in the KR file with the women in the PR file. This could be a "m:1" merge or you can use an older version of the merge command, which I prefer. The following Stata code shows how to do it, and shows that the mother's PR data is repeated for each child.

```
cd e:\DHS\scratch
```

```
use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\ETPR81FL.DTA", clear
keep if hv117==1
gen cluster=hv001
gen hh=hv002
gen mo_line=hvidx
sort cluster hh mo_line
save ETPR81temp.dta, replace
```

```
use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\ETKR81FL.DTA", clear
gen cluster=v001
gen hh=v002
gen mo_line=v003
sort cluster hh mo_line
merge cluster hh mo_line using ETPR81temp.dta
```

```
tab _merge
```

```
keep if _merge==3
save ETKRPR81FL.dta, replace
```

```
gen children_per_mother=1
collapse(sum) children_per_mother, by(cluster hh mo_line)
```

```
tab children
```

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Subject: Re: How to link child health outcome with mothers' characteristics  
Posted by [nyamukondiwamel@gmail.com](mailto:nyamukondiwamel@gmail.com) on Tue, 09 Jan 2024 06:51:08 GMT  
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I am also trying to merge mother's information and children under 5 using stata for Tanzania 2022 DHS but i keep getting the following responses when i try to use the commands for merging data

```
master data not sorted
```

```
or
```

```
variables cluster hh mo_line do not uniquely identify observations in the master data
```

may you please help me.

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Subject: Re: How to link child health outcome with mothers' characteristics  
Posted by [nyamukondiwamel@gmail.com](mailto:nyamukondiwamel@gmail.com) on Tue, 09 Jan 2024 16:26:20 GMT  
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I am trying to merge KR data for children under 5 with the household data HR as well as pregnant women/mothers IR data for Malaria research using Tanzania DHS data for 2023, may you kindly help me when I follow commands I get responses such as

```
File TZPR825L not found
```

```
Or
```

```
Invalid filelist:quotes do not match
```

```
Or
```

```
Master data not sorted
```

```
Or variables cluster hh mo_line do not uniquely identify observations in the master data
```

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Subject: Re: How to link child health outcome with mothers' characteristics  
Posted by [Bridgette-DHS](#) on Thu, 18 Jan 2024 18:43:20 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

The following Stata lines will add the mother's data and the household-level data to the child's record. Let us know if you need something else.

\* Merge the KR, IR, and HR files for the Tanzania 2022 survey

\* specify workspace

```
cd e:\DHS\DHS_data\scratch
```

```
use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\TZHR82FL.DTA", clear
```

\* Just keep household-level variables

```
drop * _ *
```

```
gen cluster=hv001
```

```
gen hh=hv002
```

```
sort cluster hh
```

```
save HRtemp.dta, replace
```

```
use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\TZIR82FL.DTA", clear
```

```
gen cluster=v001
```

```
gen hh=v002
```

```
gen mo_line=v003
```

```
sort cluster hh mo_line
```

```
save IRtemp.dta, replace
```

```
use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\TZKR82FL.DTA", clear
```

```
gen cluster=v001
```

```
gen hh=v002
```

```
gen mo_line=v003
```

\* Merge the child with the mother's data

\* The KR file already includes many of the mother's variables; they will be over-written

```
sort cluster hh mo_line
```

```
quietly merge cluster hh mo_line using IRtemp.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 HRtemp.dta
```

```
tab _merge
```

```
keep if _merge==3
```

```
drop _merge
```

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Subject: Re: How to link child health outcome with mothers' characteristics

Posted by [nyamukondiwamel@gmail.com](mailto:nyamukondiwamel@gmail.com) on Mon, 22 Jan 2024 12:54:56 GMT

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Thank you for the response however i am still failing to merge it , i have attached the response i am getting below.

### File Attachments

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1) [Tanzania merge error.jpg](#), downloaded 71 times

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**Subject: Re: How to link child health outcome with mothers' characteristics**

Posted by [Bridgette-DHS](#) on Mon, 22 Jan 2024 16:32:35 GMT

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

You modified the two merge commands by inserting "1:1". You can replace "1:1" with "m:1" in both places or you can just omit "1:1" completely. The reason for replacing the first "1" with "m" would be that a mother can have more than 1 child in the past 5 years and a household can include more than 1 mother ("m" is an abbreviation for "many"). I had intentionally omitted that part of the merge command.

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