

```
log using "D:\Jason\workshop\sipp\2023\sipp_2023.log", replace

*****
* look at the data
*****
clear
clear matrix
clear mata
set maxvar 10000
use "D:\Jason\workshop\sipp\2023\pu2021.dta", clear
rename *, lower

sort  spanel swave monthcode ssuid pnum
merge 1:1 spanel swave monthcode ssuid pnum using  D:\Jason\workshop\sipp\2023\data\rw2021.dta

*des ssuid pnum spanel swave monthcode

*****
* check out the data
*****
tab2 spanel swave, mis

*****
* Understand the data structure
*****

des ssuid pnum spanel swave monthcode

*****
* two ways of sorting the data
*****

*****
* For examining changes at the individual level
*****
sort ssuid pnum spanel swave monthcode

list  ssuid pnum spanel swave monthcode shhadid if spanel ==2018, sepby (spanel swave ssuid)
list  ssuid pnum spanel swave monthcode shhadid if ssuid =="91092598868818", sepby (ssuid pnum)

*****
* For examining changes at the family level
*****

sort spanel swave monthcode ssuid pnum
list  spanel swave monthcode ssuid pnum if ssuid =="91092598868818", sepby (spanel swave monthcode ssuid)

*****
* Relationship data
*****

*****
*Use the pointers of spouse, cohabiting partners, parents and child
*****

des erelrpe epnspouse epncohab epnpar1 epnpar2 epar1typ epar2typ rpnchild* rchtyp*
```

```
list spanel swave monthcode ssuid pnum erelrpe epnspouse epncohab epnpar1 epnpar2 epar1typ epar2typ rpnchild1 ///
rpnchild2 rchtyp1 rchtyp2 if ssuid =="91092598868818" & monthcode ==12

*****
* Use the relation matrixs
*****

des rrel1* rrel_pnum1*
list spanel swave monthcode ssuid pnum rrel1 rrel2 rrel3 rrel4 rrel5 rrel6 rrel7 rrel_pnum1 rrel_pnum2 rrel_pnum3 ///
rrel_pnum4 rrel_pnum5 rrel_pnum6 rrel_pnum7 if ssuid =="91092598868818" & monthcode ==12, sepby(spanel swave monthcode ssuid)

*****
* weighting the results
*****

tab1 ems if spanel ==2021 [iweight=wpfinwgt]
tab1 ems if monthcode==21 [iweight=wpfinwgt]
tab1 ems if spanel ==2021 & monthcode==12 [iweight=wpfinwgt]

svyset [pweight= wpfinwgt], brrweight(repwt1-repwt240) fay(.5) vce(brr) mse

svy: mlogit ems tage

log close
```