

name: <unnamed>
log: F:\workshop\long format\reshape_05_21_18.log
log type: text
opened on: 21 May 2018, 12:16:12

```
.  
*****  
. * Accurate data  
*****  
.  
.  
*****  
. * Read in the Excel file  
*****  
. clear  
.  
import excel "F:\workshop\long format\reshape.xlsx", sheet("Sheet1") firstrow  
.  
.  
*****  
. * Change the data from wide to long  
*****  
. reshape long sex, i(fam_id) j(pernum)  
(note: j = 1 2 3 4 5 6 7 8)
```

Data	wide	->	long
Number of obs.	2	->	16
Number of variables	9	->	3
j variable (8 values)		->	pernum
xij variables:	sex1 sex2 ... sex8	->	sex

```
. list, sepby(fam_id)
```

	fam_id	pernum	sex
1.	9	1	2
2.	9	2	2
3.	9	3	.
4.	9	4	.
5.	9	5	.
6.	9	6	.
7.	9	7	.
8.	9	8	.
9.	8212	1	1
10.	8212	2	2
11.	8212	3	1
12.	8212	4	1
13.	8212	5	2
14.	8212	6	2
15.	8212	7	1
16.	8212	8	2

```
.  
.  
*****  
. * Change the data from long to wide  
*****  
.  
. reshape wide sex, i(fam_id) j(pernum)  
(note: j = 1 2 3 4 5 6 7 8)
```

Data	long	->	wide
------	------	----	------

```
-----
Number of obs.                16  ->    2
Number of variables           3   ->    9
j variable (8 values)        pernum -> (dropped)
xij variables:
                                sex  ->  sex1 sex2 ... sex8
-----
```

```
. list, sepby(fam_id)
```

```
-----+-----
| fam_id  sex1  sex2  sex3  sex4  sex5  sex6  sex7  sex8 |
-----+-----
1. |      9     2     2     .     .     .     .     . |
-----+-----
2. |    8212     1     2     1     1     2     2     1     2 |
-----+-----
```

```
. *****
. * first inaccurate data example
. *****
. clear
```

```
. import excel "F:\workshop\long format\reshape2.xlsx", sheet("Sheet1") firstrow
```

```
. reshape long sex, i(fam_id) j(pernum)
(note: j = 1 2 3 4 5 6 7 8)
variable sex8 type mismatch with other sex variables
r(198);
```

```
end of do-file
```

```
r(198);
```

```
. des
```

```
Contains data
```

```
obs:      2
vars:     9
size:    20
```

```
-----
variable name  storage  display  value  variable label
               type    format    label
-----
fam_id        int      %10.0g   fam_id
sex1          byte      %10.0g   sex1
sex2          byte      %10.0g   sex2
sex3          byte      %10.0g   sex3
sex4          byte      %10.0g   sex4
sex5          byte      %10.0g   sex5
sex6          byte      %10.0g   sex6
sex7          byte      %10.0g   sex7
sex8          str1     %9s      sex8
-----
```

```
Sorted by:
```

```
Note: Dataset has changed since last saved.
```

```
.
.
.
. destring sex8, replace
sex8: all characters numeric; replaced as byte
(1 missing value generated)
```

```
.
.
.
. des
```

```

Contains data
  obs:      2
  vars:     9
  size:    20

```

variable name	storage type	display format	value label	variable label
fam_id	int	%10.0g		fam_id
sex1	byte	%10.0g		sex1
sex2	byte	%10.0g		sex2
sex3	byte	%10.0g		sex3
sex4	byte	%10.0g		sex4
sex5	byte	%10.0g		sex5
sex6	byte	%10.0g		sex6
sex7	byte	%10.0g		sex7
sex8	byte	%10.0g		sex8

Sorted by:

Note: Dataset has changed since last saved.

```

.
.
.
. reshape long sex, i(fam_id) j(pernum)
(note: j = 1 2 3 4 5 6 7 8)

```

Data	wide	->	long
Number of obs.	2	->	16
Number of variables	9	->	3
j variable (8 values)		->	pernum
xij variables:	sex1 sex2 ... sex8	->	sex

```

. list, sepby(fam_id)

```

```

+-----+
| fam_id  pernum  sex |
+-----+
1. |      9      1    2 |
2. |      9      2    2 |
3. |      9      3    . |
4. |      9      4    . |
5. |      9      5    . |
6. |      9      6    . |
7. |      9      7    . |
8. |      9      8    . |
+-----+
9. |    8212      1    1 |
10. |    8212      2    2 |
11. |    8212      3    1 |
12. |    8212      4    1 |
13. |    8212      5    2 |
14. |    8212      6    2 |
15. |    8212      7    1 |
16. |    8212      8    2 |
+-----+

```

```

.
.
.
. *****
.
. * Second Inaccurate data example
.

```

```

. *****
.
. clear
.
.
. import excel "F:\workshop\long format\reshape3.xlsx", sheet("Sheet1") firstrow
.
. reshape long sex, i(fam_id) j(pernum)
(note: j = 1 2 3 4 5 6 7)
variable sex already defined
r(110);

```

```

. list, sepby(fam_id)

```

	fam_id	sex1	sex2	sex3	sex4	sex5	sex6	sex7	sex
1.	9	2	2
2.	8212	1	2	1	1	2	2	1	2

```

.
.
. *****

```

```

. * Third inaccurate data example

```

```

. *****

```

```

. clear
.
.
. import excel "F:\workshop\long format\reshape4.xlsx", sheet("Sheet1") firstrow
.
. reshape long sex, i(fam_id) j(pernum)
variable pernum contains all missing values
r(498);

```

```

. list, sepby(fam_id)

```

	fam_id	sex_a	sex_b	sex_c	sex_d	sex_e	sex_f	sex_g	sex_h
1.	9	2	2
2.	8212	1	2	1	1	2	2	1	2

```

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.
.
.
.
. log close
name: <unnamed>
log: F:\workshop\long format\reshape_05_21_18.log
log type: text

```

closed on: 21 May 2018, 12:17:11
