. clear

.
. /*
>   Back to Fan's Stata4Econ or other repositories:
>   - http://fanwangecon.github.io
>   - http://fanwangecon.github.io/Stata4Econ
>   - http://fanwangecon.github.io/R4Econ
>   - http://fanwangecon.github.io/M4Econ
>   - http://fanwangecon.github.io/CodeDynaAsset/
>   - http://fanwangecon.github.io/Math4Econ/
>   - http://fanwangecon.github.io/Stat4Econ/
>   - http://fanwangecon.github.io/Tex4Econ
>
>   1. given a list of variables, and some conditioning statement
>   2. what is the subset of observations where these variables all have non missing values
>   3. and satisfying the condioning statements
>
> */
.
. ///--- Start log
> set more off

. capture log close _all

. cd "${root_log}"
C:\Program Files (x86)\Stata14

. global st_link "/summ/count/fs_nonmissing"

. global curlogfile "~/Stata4Econ/${st_link}"

. global st_logname "select_rows_nonmissing"

. log using "${curlogfile}" , replace name($st_logname)
(note: file C:\Users\fan/Stata4Econ//summ/count/fs_nonmissing.smcl not found)
───
       name: **select_rows_nonmissing**
        log: **C:\Users\fan/Stata4Econ//summ/count/fs_nonmissing.smcl**
   log type: **smcl**
 opened on: **6 Oct 2019, 18:48:32**

. log on $st_logname
(log already on)

.
. ///-- Site Link: Fan's Project Reusable Stata Codes Table of Content
> di "https://fanwangecon.github.io/"
https://fanwangecon.github.io/

. di "https://fanwangecon.github.io/Stata4Econ/"
https://fanwangecon.github.io/Stata4Econ/

.
. ///-- File Title
> global filetitle "Stata Select Rows where Multiple Variables are All Observed, Jointly Nonmissi

.
. ///--- Load Data
> set more off

. sysuse auto, clear
(1978 Automobile Data)

.
. ///--- Generating Index for Dropping
> set seed 987

```
. scalar it_drop_frac = 3

. gen row_idx_it = round((_n/_N)*it_drop_frac)

. gen row_idx_rand = round(it_drop_frac*uniform())

. replace mpg =. if row_idx_it == row_idx_rand
(21 real changes made, 21 to missing)

.
. set seed 123

. scalar it_drop_frac = 3

. replace row_idx_it = round((_n/_N)*it_drop_frac)
(0 real changes made)

. replace row_idx_rand = round(it_drop_frac*uniform())
(48 real changes made)

. replace price =. if row_idx_it == row_idx_rand
(14 real changes made, 14 to missing)

.
. ///--- list vars to include in a regression for example
> global svr_list "mpg price length weight"

.
. ///--- Conditioning
> global scd_bse "foreign !=."

. global scd_one "& foreign == 1"

. global scd_two "& gear_ratio <= 4"

.
. ///--- Drop approximately 1/2 of make randomly
> egen valid = rownonmiss($svr_list) if $scd_bse $scd_one $scd_two
(52 missing values generated)

.
. ///--- Tabulate and list Results
> tab valid
```

valid	Freq.	Percent	Cum.
2	2	9.09	9.09
3	9	40.91	50.00
4	11	50.00	100.00
Total	22	100.00	

```
. list $svr_list if valid == wordcount("$svr_list")
```

	mpg	price	length	weight
53.	17	9,690	189	2,830
57.	35	4,589	165	2,020
59.	21	8,129	184	2,750
60.	21	4,296	161	2,130
63.	30	3,995	154	1,980
64.	14	12,990	192	3,420
66.	35	3,798	164	2,050
69.	18	5,719	175	2,670
70.	23	7,140	172	2,160
71.	41	5,397	155	2,040
74.	17	11,995	193	3,170

.
. ///--- List including rows where not all values are observed but conditioning satisfied
> tab valid

```
      valid │      Freq.      Percent        Cum.
────────────┼───────────────────────────────────
          2 │          2         9.09         9.09
          3 │          9        40.91        50.00
          4 │         11        50.00       100.00
────────────┼───────────────────────────────────
      Total │         22       100.00
```

. list $svr_list if valid !=.

	mpg	price	length	weight
53.	17	9,690	189	2,830
54.	.	6,295	174	2,070
55.	.	.	177	2,650
56.	23	.	170	2,370
57.	35	4,589	165	2,020
58.	.	.	170	2,280
59.	21	8,129	184	2,750
60.	21	4,296	161	2,130
61.	25	.	172	2,240
62.	28	.	149	1,760
63.	30	3,995	154	1,980
64.	14	12,990	192	3,420
65.	.	3,895	142	1,830
66.	35	3,798	164	2,050
67.	.	5,899	174	2,410
68.	31	.	165	2,200
69.	18	5,719	175	2,670
70.	23	7,140	172	2,160
71.	41	5,397	155	2,040
72.	.	4,697	155	1,930
73.	.	6,850	156	1,990
74.	17	11,995	193	3,170

.
. ///--- End Log and to HTML
> log close _all
```
      name:  select_rows_nonmissing
       log:  C:\Users\fan/Stata4Econ//summ/count/fs_nonmissing.smcl
  log type:  smcl
 closed on:  6 Oct 2019, 18:48:32
```
──

. capture noisily {
.   log2html "${curlogfile}", replace title($filetitle (<a href="https://github.com/FanWangEcon/S
> nk}.do">DO, more see: Fan and <a href="https:/
> 4Econ">Stata4Econ))

HTML log file ~/Stata4Econ//summ/count/fs_nonmissing.html created
. }

.
. ///--- to PDF
> capture noisily {
.   translator set Results2pdf logo off
.   translator set Results2pdf fontsize 10
.   translator set Results2pdf pagesize custom
.   translator set Results2pdf pagewidth 8.27
.   translator set Results2pdf pageheight 11.69
.   translator set Results2pdf lmargin 0.2
.   translator set Results2pdf rmargin 0.2
.   translator set Results2pdf tmargin 0.2
.   translator set Results2pdf bmargin 0.2
.   translate @Results "${curlogfile}.pdf", replace translator(Results2pdf)