```
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. 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
    Stata matrix basic generation and matrix slicing

    Generate Matrix
    Replace single cell values from matrix

    3. Replace subset of matrix by row or column array
    4. Row and Column Names
    5. Retrieve matrix row and column values
. ///--- Start log
> set more off
. capture log close _all
 cd "${root log}"
C:\Program Files (x86)\Stata14
. global st link "/matrix/define/basic"
. global curlogfile "~/Stata4Econ/${st link}"
. global st logname "matrix select subset"
. log using "${curlogfile}" , replace name($st_logname)
      name: matrix select subset
       log: C:\Users\fan/Stata4Econ//matrix/define/basic.smcl
 log type: smcl opened on: 6 Oct 2019, 18:49:17
. 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 Matrix Slicing, Select Subset of Matrix Values, Subset of Rows and Columns"
  ///--- Generate matrix with all 0
          scalar it rowcnt = 4
          scalar it colcnt = 6
          scalar bl fillval = 0
          matrix mt bl estd = J(it rowcnt, it colcnt, bl fillval)
 ///--- Give Matrix Row and Column Names
          matrix rownames mt bl estd = hhfe vilfe provfe morecontrols
          matrix colnames mt bl estd = reg1 reg2 reg3 reg4 reg5 reg6
 ///--- Assign value to matrix cell single
          \verb|matrix| \verb|mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt bl estd, "reg1")] = 1
```

```
Sunday October 6 18:49:18 2019 Page 2 matrix mt bl estd[2,2] = 3
. ///--- Assign value to 4th row, 3nd to 6th
          matrix mt bl estd[4,3] = (9,8,7,6)
. ///--- Assign value to 4th column, 2nd 3rd values
> matrix mt_bl_estd[2,4] = (-3\-44.3)
 ///--- Obtain value from matrix
          scalar bl hhfe reg1 = mt bl estd[rownumb(mt bl estd, "hhfe"), colnumb(mt bl estd, "reg1")]
          di bl hhfe reg1
          di el(mt_bl_estd, rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1"))
 ///--- Select a column from matrix
          matrix mt bl estd colreg1 = mt bl estd[1..., colnumb(mt bl estd, "reg1")]
          matrix list mt_bl_estd_colreg1
mt_bl_estd_colreg1[4,1]
        hhfe
       vilfe
                  0
      provfe
                  0
morecontrols
. ///--- Get Row and Column Names
          global st colnames : colnames mt bl estd
          di "${st colnames}"
reg1 reg2 reg3 reg4 reg5 reg6
          global st rownames : rownames mt bl estd
          di "${st rownames}"
hhfe vilfe provfe morecontrols
. ///--- Show Matrix
          matrix list mt_bl_estd
mt_bl_estd[4,6]
                               reg3
                reg1
                        reg2
        hhfe
                           0
                                          0
                   1
                                   ი
       vilfe
                   O
                           3
                           0
      provfe
                   0
morecontrols
. ///--- End Log and to \ensuremath{\mathsf{HTML}}
> log close _all
      name:
             matrix_select_subset
       log: C:\Users\fan/Stata4Econ//matrix/define/basic.smcl
  log type:
            smcl
 closed on:
              6 Oct 2019, 18:49:17
. capture noisily {
    log2html "${curlogfile}", replace title($filetitle (<a href="https://github.com/FanWangEcon/Stata4Econ/blob/master${st_1:
> nk}.do">DO</a>, more see: <a href="https://fanwangecon.github.io/">Fan</a> and <a href="https://fanwangecon.github.io/Stata
> 4Econ">Stata4Econ</a>))
HTML log file ~/Stata4Econ//matrix/define/basic.html created
. }
. ///--- to PDF
> capture noisily {
           // translator query Results2pdf
           translator set Results2pdf logo off
          translator set Results2pdf fontsize 8 translator set Results2pdf pagesize letter
          translator set Results2pdf lmargin 0.2
translator set Results2pdf rmargin 0.2
           translator set Results2pdf tmargin 0.2
          translator set Results2pdf bmargin 0.2
           translate @Results "${curlogfile}.pdf", replace translator(Results2pdf)
```