

Total

69

100.00

```
1 . clear
2.
      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. Same regression for two Subgroups
      2. Show all subgroup coefficients in one regression
5 . ///--- Start log
  > set more off
6 . capture log close
7 . cd "${root log}"
  C:\Users\fan\Documents\Dropbox (UH-ECON)\Project Emily Minority Survey\Code
8 . global curlogfile "~\Stata4Econ\reglin\discrete\fs reg d interact"
9 . log using "${curlogfile}" , replace
  (note: file C:\Users\fan\Stata4Econ\reglin\discrete\fs reg d interact.smcl not found)
               <unnamed>
               C:\Users\fan\Stata4Econ\reglin\discrete\fs reg d interact.smcl
         log:
    log type:
                smcl
   opened on:
                1 Aug 2019, 21:24:50
10. log on
  (log already on)
11.
12. ///--- Load Data
  > set more off
13. sysuse auto, clear (1978 Automobile Data)
14.
15. tab rep78
       Repair
  Record 1978
                      Freq.
                                 Percent
                                                 Cum.
                           2
                                    2.90
                                                 2.90
             2
                           8
                                   11.59
                                                14.49
             3
                                                57.97
                          30
                                   43.48
             4
                          18
                                   26.09
                                                84.06
             5
                          11
                                   15.94
                                               100.00
```

16. tab foreign

Cum.	Percent	Freq.	Car type
70.27 100.00	70.27 29.73	52 22	Domestic Foreign
	100.00	74	Total

17. 18. * 1. Same regression for two Subgroups

19. eststo clear

20. eststo, title(dom): regress weight ib3.rep78 if foreign == 0

Source	SS	df	MS		er of obs	-	48 2.73
Model Residual	4501656.94 17746209.7	4 43	1125414.24 412702.552	R-sqi	> F uared	= = = =	0.0414 0.2023 0.1281
Total	22247866.7	47	473358.865		R-squarec MSE	=	642.42
weight	Coef.	Std. Err.	t	P> t	[95% C	Conf.	Interval]
rep78 1 2 4 5	-342.2222 -88.47222 90 -1482.222	470.7829 258.5983 247.2673 470.7829	-0.34 0.36	0.471 0.734 0.718 0.003	-1291.6 -609.98 -408.6 -2431.6	355 662	607.202 433.041 588.662 -532.798
_cons	3442.222	123.6337	27.84	0.000	3192.8	391	3691.553

(est1 stored)

21. eststo, title(foreign): regress weight ib3.rep78 if foreign == 1

Source	ss	df	MS	Numb F(2,	er of ob:	s = =	21 1.58
Model Residual	396711.111 2263555.56	2 18	198355.556 125753.086	Prob R-sq	> F uared	= =	0.2338 0.1491 0.0546
Total	2660266.67	20	133013.333		R-squared MSE	u – =	354.62
weight	Coef.	Std. Err.	t	P> t	[95% (Conf.	Interval]
rep78 4 5	197.7778 393.3333	236.4112 236.4112	0.84 1.66	0.414 0.113	-298.90 -103.3		694.4593 890.0149
_cons	2010	204.7381	9.82	0.000	1579.	861	2440.139

(est2 stored)

22. esttab, mtitle title("Foreign or Domestic")

Foreign or Domestic

	(1) dom	(2) foreign
1.rep78	-342.2 (-0.73)	
2.rep78	-88.47 (-0.34)	
3.rep78	0 (.)	0 (.)

```
197.8
  4.rep78
                            90.00
                           (0.36)
                                                (0.84)
                          -1482.2**
                                                 393.3
  5.rep78
                          (-3.15)
                                                (1.66)
                          3442.2***
                                                2010.0***
  _cons
                          (27.84)
                                                (9.82)
  Ν
                                48
                                                     21
  t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001</pre>
24. * 2. Show all1 subgroup coefficients in one regression
25. capture drop domestic
26. recode foreign ///
        (0 = 1 "domestic") ///1
(1 = 0 "foreign") ///
(else = .) ///
        , ///
  > gen(domestic)
(74 differences between foreign and domestic)
```

27. tab domestic foreign

RECODE of foreign (Car type)	Car t Domestic		Total
foreign domestic	0 52	22 0	22 52
Total	52	22	74

```
29. * using factor for binary
30. eststo clear
31. eststo, title(both): quietly regress ///
> weight ///
> ib0.foreign ib0.domestic ///
> ib3 ren78#ib0 foreign ///
```

> ib3.rep78#ib0.foreign ///
> ib3.rep78#ib0.domestic ///
> noc

> , noc (est1 stored)

32. esttab, mtitle title("Foreign or Domestic")

Foreign or Domestic

	(1) both
0.foreign	0 (.)
1.foreign	2010.0*** (6.08)
0.domestic	0 (.)
1.domestic	3442.2*** (31.23)
1.rep78#0.~n	-342.2 (-0.82)

1.rep78#1.~n	0 (.)
2.rep78#0.~n	-88.47 (-0.38)
2.rep78#1.~n	0
3.rep78#0.~n	0
3.rep78#1.~n	0
4.rep78#0.~n	90.00 (0.41)
4.rep78#1.~n	197.8 (0.52)
5.rep78#0.~n	-1482.2*** (-3.53)
5.rep78#1.~n	393.3 (1.03)
1.rep78#0.~c	0 (.)
1.rep78#1.~c	0
2.rep78#0.~c	0
2.rep78#1.~c	0
3.rep78#0.~c	0 (.)
3.rep78#1.~c	0
4.rep78#0.~c	0
4.rep78#1.~c	0
5.rep78#0.~c	0
5.rep78#1.~c	0
N	69

t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001

```
33.34. * using cts for binary35. eststo clear
36. eststo, title(both): quietly regress ///
          weight ///
           c.foreign c.domestic ///
ib3.rep78#c.foreign ///
ib3.rep78#c.domestic ///
   > , noc (est1 stored)
```

37. esttab, mtitle title("Foreign or Domestic")

Foreign or Domestic

	(1) both
foreign	2010.0***
domestic	3442.2*** (31.23)
1.rep78#c.~n	0
2.rep78#c.~n	0
3.rep78#c.~n	0 (.)
4.rep78#c.~n	197.8 (0.52)
5.rep78#c.~n	393.3 (1.03)
1.rep78#c.~c	-342.2 (-0.82)
2.rep78#c.~c	-88.47 (-0.38)
3.rep78#c.~c	0 (.)
4.rep78#c.~c	90.00 (0.41)
5.rep78#c.~c	-1482.2*** (-3.53)
N	69

t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001

```
38.
39.
40. ///--- End Log and to HTML
 > log close
              <unnamed>
       name:
        log: C:\Users\fan\Stata4Econ\reglin\discrete\fs reg d interact.smcl
   log type: smcl
  closed on:
              1 Aug 2019, 21:24:51
41. capture noisily {
42. log2html "${curlogfile}", replace
 (note: file C:\Users\fan\Stata4Econ\reglin\discrete\fs_reg_d_interact.html not found)
 HTML log file ~\Stata4Econ\reglin\discrete\fs_reg_d_interact.html created
43. }
44. capture noisily {
45. erase "${curlogfile}.smcl"
46.}
47. ///--- to PDF
 > capture noisily {
48. translate @Results "${curlogfile}.pdf", replace translator(Results2pdf)
```