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1  *Dailon Dolojan ID#(1425273)
2  *4/12/18
3  *ECON 104
4  *Homework 1
5
6  set more off
7  clear all
8  global dir = "/Users/dailondolojan/Desktop/stata_data/econ104/hw1"
9  cd "${dir}"
10 use "${dir}/comp_ia_bootstrap1.dta", clear
11
12 *** Problem 1: Table located in page 3
13
14 label variable female "Gender of Individual"
15 label variable age "Age of Individual"
16 label variable newreg "Newly Registered Voters"
17 label variable vote00 "Vote in 00"
18 label variable vote98 "Vote in 98"
19 label variable treat_real "Assignment to Treatment Group"
20
21 eststo untreated: estpost summarize female age newreg vote00 vote98
   if treat_real == 0
22 eststo treated: estpost summarize female age newreg vote00 vote98
   if treat_real == 1
23 eststo difference: estpost ttest female age newreg vote00 vote98,
   by(treat_real) unequal
24
25 esttab untreated treated difference using
   "${dir}/balance_check_1.rtf", cells("mean(pattern(1 1 0) fmt(2))
   sd(pattern(1 1 0)) b(star pattern(0 0 1) fmt(2)) p(pattern(0 0 1)
   par fmt(2))") plain label replace
26
27 *** Problem 2:
28 * Yes, the table I produced in question 1 is consistent with the
   randomization being correctly implemented because all the p-values
   of each of the variables are greater than 0.10 therefore
   illustrating that these variables are not statistically
   significant.
29
30
31 *** Problem 3:
32 reg vote02 treat_real
33
34 * The p-value of treat_real is 0.023 which is statistically less
   than 0.10 and 0.05 therefore illustrating it is statistically
   significant. The value 0.0098513 is not large enough in a
   practical sense to call individuals to vote.
35
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37 reg vote02 treat_real
38 outreg2 using "${dir}/reg_1_s.xls", replace nonote se label bdec(3)
39
40 reg vote02 treat_real female

41 outreg2 using "${dir}/reg_1_s.xls", append nonote se label bdec(3)
42
43 reg vote02 treat_real female age
44 outreg2 using "${dir}/reg_1_s.xls", append nonote se label bdec(3)
45
46 reg vote02 treat_real female age newreg
47 outreg2 using "${dir}/reg_1_s.xls", append nonote se label bdec(3)
48
49 reg vote02 treat_real female age newreg vote00
50 outreg2 using "${dir}/reg_1_s.xls", append nonote se label bdec(3)
51
52 reg vote02 treat_real female age newreg vote00 vote98
53 outreg2 using "${dir}/reg_1_s.xls", append nonote se label bdec(3)
54
55 * Problem 5:
56 * There is a miniscule effect of adding covariates to the
    estimation. The point estimates are so close to zero and
    progressively decrease when adding covariates that the minor
    fluctuations illustrates that there is no relation to the
    covariates.

57
58
59 * Problem 6:
60 * We should received an ubiased estimate. The p-values from table
    1 illustrate that the covariates are not statistically significant
    as well as the point estimates from the appended covariates being
    so close to 0. This ultimately means that the covariates have no
    statistically significant affect in this experiment.
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	untreated		treated		difference	
	mean	sd	mean	sd	b	p
Gender of Individual	0.56	0.50	0.56	0.50	-0.00	(0.99)
Age of Individual	55.83	18.98	55.98	18.72	-0.15	(0.38)
Newly Registered Voters	0.05	0.22	0.05	0.21	0.00	(0.36)
Vote in 00	0.73	0.44	0.73	0.44	-0.00	(0.81)
Vote in 98	0.57	0.49	0.58	0.49	-0.00	(0.59)
Observations	86249		15153		101402	

VARIABLES	(1) vote02	(2) vote02	(3) vote02	(4) vote02	(5) vote02	(6) vote02
Assignment to Treatment Group	0.010** (0.004)	0.008* (0.004)	0.007* (0.004)	0.007 (0.004)	0.009** (0.004)	0.008** (0.004)
Gender of Individual		-0.009*** (0.003)	-0.032*** (0.003)	-0.032*** (0.003)	-0.029*** (0.003)	-0.026*** (0.003)
Age of Individual			0.006*** (0.000)	0.006*** (0.000)	0.003*** (0.000)	0.002*** (0.000)
Newly Registered Voters				-0.216*** (0.007)	0.138*** (0.007)	0.163*** (0.007)
Vote in 00					0.532*** (0.003)	0.403*** (0.004)
Vote in 98						0.270*** (0.003)
Constant	0.594*** (0.002)	0.615*** (0.002)	0.289*** (0.005)	0.327*** (0.005)	0.029*** (0.005)	0.070*** (0.005)
Observations	101,402	98,839	98,839	98,839	98,839	98,839
R-squared	0.000	0.000	0.054	0.063	0.249	0.301