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name: <unnamed>
log: C:\Users\Connor\Documents\ECON 121\pset3_log_file.smcl
log type: smcl
opened on: 13 Feb 2020, 13:32:34

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1 . clear all                // this closes data currently open
2 . use "nlsy_deming.dta"    // this opens desired dataset
3 .
4 . /*
> Head Start is an early-childhood development program run by the U.S. federal governm
> ent. It provides health, nutrition, and education services to children from disadvan
> taged backgrounds. The dataset contains a sample of children of NLSY79 participants,
> some of whom participated in Head Start. All of the sample children have at least o
> ne sibling also in the sample. The variables are ordered as follows:
> • head_start - sibdiff relate to head start participation.
> • mom_id - lnbw were determined prior to Head Start participation. (Note: the PPVT i
> s an earlychildhood cognitive test.)
> • comp_score_5to6 - comp_score_11to14 correspond to test scores in childhood.
> • repeat - fphealth deal with outcomes in the teenage years and young adulthood.
> For various reasons, some variables have missing data. You may decide how to deal wi
> th missing values on your own.
> */
5 .
6 . /*
> Question 1:
> Summarize the data. What can you say about the backgrounds of children who participa
> ted in Head Start?
> */
7 .
8 . // Answer 1:
9 .
10. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
11.
12.
13.
14. /*
> Question 2:
> As a first step, estimate the association between Head Start participation and age 5
> -6 test scores using OLS. Make sure you estimate standard errors correctly. If we as
> sumed Head Start participation is exogenous, what would we conclude about the effect
> s of Head Start on test scores? Be sure to explain the magnitude of the estimated ef
> fect. Is it reasonable to assume that Head Start participation is exogenous?
> */
15.
16. // Answer 2:
17.
18. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
19.
20.
21.
22. /*
> Question 3:
> Now estimate the same association using a random effects model (with mother random e
> ffects). How do the results compare with OLS? Does the comparison make you more or l
> ess confident that OLS or random effects can shed light on the causal effect of Head
> Start on test scores?
> */

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23.
24. // Answer 3:
25.
26. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
27.
28.
29.
30. /*
  > Question 4:
  > Now estimate a mother fixed effects model. Run regressions both with and without pre
  > -Head Start control variables. Which control variables can you include, and which ca
  > n't you include? Why? What do the results imply about the effects of Head Start on t
  > est scores? If the fixed effects results are different from those in your answer fro
  > m question (2), explain why.
  > */
31.
32. // Answer 4:
33.
34. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
35.
36.
37.
38. /*
  > Question 5:
  > Some advocates for early-childhood education suggest that the effects of programs li
  > ke Head Start are long-lasting. Carry out fixed effects analyses of test scores at l
  > ater ages. Does Head Start participation have similar effects on test scores in late
  > r childhood, or do the effects fade out with age? Make sure you compare results usin
  > g comparable test-score units. (Hint: you can convert test scores to standard deviat
  > ions.)
  > */
39.
40. // Answer 5:
41.
42. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
43.
44.
45.
46. /*
  > Question 6:
  > Estimate fixed effects models of the effect of Head Start on longer-term outcomes be
  > sides test scores. Many of these outcomes are binary, but you may use linear models.
  > Interpret your results.
  > */
47.
48. // Answer 6:
49.
50. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
51.
52.
53.
54.
55.
56. /*
  > Question 7:
  > Do the effects of Head Start participation on longer-term outcomes vary by race/ethn
  > icity? By sex?
  > */
57.
58. // Answer 7:

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59.
60. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
61.
62.
63.
64.
65.
66. /*
    > Question 8:
    > The Obama administration advocated expanding federal funding for early-childhood edu
    > cation programs, while the Trump administration has argued for cuts. Based on your r
    > esults, which position seems better supported by evidence? Would you feel comfortabl
    > e using your results to predict the effects of such an expansion? Why or why not?
    > */
67.
68. // Answer 8:
69.
70. * --> Write you answer here. If it's not Stata code, make sure it's in comments.
71.
72.
73.
74.
75.
```