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1 *****
2 * A Practical Guide to Using Panel Data
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5 * Chapter 6
6 *****
7
8 version 12
9 clear all
10 set more off
11 capture log close
12
13 cd "C:\My Documents"
14
15 global mydir1 "S:\final"
16 global dirresults "C:\My Documents\"
17
18 log using "$dirresults\Example_Chapter6.log", replace
19
20
21 * Section 6.2.1
22 *-----
23
24 use "$mydir1/begoalt", clear
25 describe
26 label list bsex bosex brel
27
28 generate long daughter_pid = 0
29 replace daughter_pid = bopid if (brel==4 & bosex==2)
30
31 generate long brother_pid = 0
32 replace brother_pid = bopid if (brel==10 & bosex==1)
33
34 generate long grandmother_pid = 0
35 replace grandmother_pid = bopid if (brel==16 & bosex==2)
36
37 generate long grandfather_pid = 0
38 replace grandfather_pid = bopid if (brel==16 & bosex==1)
39
40 generate long spouse_partner_pid = 0
41 replace spouse_partner_pid = bopid if (brel>=2 & brel<=3)
42
43
44 keep if spouse_partner_pid>0
45 duplicates report pid
46
47 merge 1:1 pid using "$mydir1/bindall"
48 keep if _merge==3
49
50 replace bsppid=. if bsppid==0
51 corr bsppid spouse_partner_pid
52
53
54
55 * Section 6.3
56 *-----
57
58 use "$mydir1/bindresp", clear
59 keep bhid bpno bhgspn bage bsex bqfachi
60 drop if bhgspn==0
61 sort bhid bpno
62 save respondent, replace
63
64 use "$mydir1/bindresp", clear
65 keep bhid bpno bhgspn bage bsex bqfachi
66 drop if bhgspn==0
67 drop bpno
68 rename bhgspn bpno
69 foreach var in bsex bage bqfachi {
70     rename `var' `var'_partner
71 }
72
73 label define bsex_partner 1 "male" 2 "female"
74 label value bsex bsex_partner
75 label var bsex_partner "sex of spouse or partner"

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76 label var bage_partner "sage of spouse or partner"
77
78 sort bhid bpno
79 merge 1:1 bhid bpno using respondent
80 keep if _merge==3
81
82 egen bcoupleID=rowmin(bpno bhgspn)
83 generate bcoupleID_alt=cond(bpno < bhgspn, bpno, bhgspn)
84
85 tabulate bcoupleID bcoupleID_alt, miss
86 bysort bhid bcoupleID: keep if _n==1
87 save "$dirresults\matched", replace
88
89
90 use "$mydir1/bindresp", clear
91 keep bhid bpno bhgspn bage bsex bqfachi
92 egen bcoupleID=rowmin(bpno bhgspn) if bhgspn~=0
93 label var bcoupleID "couple identifier"
94
95 drop if bcoupleID == .
96
97 bysort bhid bcoupleID: generate bage_partner = cond(_n==2, bage[1], bage[2], .)
98 summarize bhid bpno if bage_partner == .
99
100 foreach var in bsex bqfachi {
101     bysort bhid bcoupleID: ///
102         generate `var'_partner = cond(_n==2, `var'[1], `var'[2], .)
103 }
104
105 label var bage_partner "age of spouse or partner"
106 label value bage_partner bage
107
108 label var bsex_partner "sex of spouse or partner"
109 label value bsex_partner bsex
110
111 label var bqfachi_partner "highest academic qualification of spouse or partner"
112 label value bqfachi_partner bqfachi
113
114
115 bysort bhid bcoupleID: keep if _n==1
116
117
118 * Section 6.4
119 *-----
120
121 label var bage "Age at date of interview"
122
123 scatter bage bage_partner, scheme(s1manual) ///
124     saving("$dirresults\age_matching", replace)
125
126 scatter bage bage_partner || lfit bage bage_partner, scheme(s1manual) ///
127     saving("$dirresults\age_matchin2", replace)
128
129 correlate bage bage_partner
130
131 tabulate bqfachi bqfachi_partner if bqfachi>0 & bqfachi_partner>0, cell nofreq
132
133 tabulate bsex bsex_partner
134
135 recode bqfachi (1/3=2 high) (4/6 = 1 low) (7=0 none) (-9/-1=.), gen(edu)
136 fre edu
137
138 recode bqfachi_partner (1/3=2 high) (4/6 = 1 low) (7=0 none) (-9/-1=.), ///
139     gen(edu_partner)
140 fre edu_partner
141
142 tabulate edu edu_partner, cell nofreq
143
144
145 save "$dirresults\matched2", replace
146
147 erase respondent.dta
148
149 log close
150

```