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1 *****
2 * A Practical Guide to Using Panel Data
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5 * Chapter 5
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 datadir "S:\final"
16 global dirresults "C:\My Documents\"
17
18 log using "$dirresults\Example_Chapter5.log", replace
19
20
21 * Section 5.3.1
22 *-----
23
24 use pid rhid rage rhgsex rhgemp rhoh rxewght using "$datadir/rindall", clear
25
26 describe rhgemp
27 label list rhgemp
28
29 generate NotEmp = (rhgemp ~= 1) if rhgemp>=0
30
31 tab2 NotEmp rhgemp, missing
32
33 bysort rhid: egen numNotEmp = sum(NotEmp)
34 bysort rhid: egen empmiss = sum(NotEmp==.)
35 replace numNotEmp=. if empmiss>0
36
37 bysort rhid: egen numNotEmp2 = sum(rhgemp ~= 1 & rhgemp>=0)
38 bysort rhid: egen empmiss2 = sum(rhgemp<0)
39 replace numNotEmp2=. if empmiss2>0
40
41 summarize pid if numNotEmp~=numNotEmp2
42 tabulate numNotEmp numNotEmp2, missing
43 tabulate empmiss empmiss2, missing
44
45 label list rhoh rhgsex
46 bysort rhid: egen femaleHoH = sum(rhoh == 1 & rhgsex == 2)
47
48 bysort rhid: egen numkids = sum(rage >= 0 & rage < 16)
49
50 save tempIND, replace
51
52
53 * Section 5.3.2
54 *-----
55
56 use rhid rfihhmn rfieqfcb rhhsz rregion2 using "$datadir/rhhresp", clear
57
58 bysort rhid: gen uniqueHH = _N
59 tabulate uniqueHH
60
61 duplicates report rhid
62 isid rhid
63
64
65 sort rhid
66 save tempHH, replace
67
68 use tempIND, clear
69 sort rhid
70 duplicates report rhid
71 duplicates report pid
72
73 merge m:1 rhid using tempHH
74 drop _merge
75

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76
77 * Ssection 5.3.3
78 *-----
79
80 generate equivHHinc = rfihhmn/rfieqfcb if rfihhmn>=0 & rfihhmn<.
81
82 summarize equivHHinc [aweight = rxewght], detail
83 return list
84 generate PovertyLine = 0.60*r(p50)
85
86 generate poor = (equivHHinc<PovertyLine) if equivHHinc<.
87
88 tabulate poor
89
90 summarize equivHHinc [aweight = rxewght], detail
91 global PovertyLine = 0.60*r(p50)
92 generate poor2 = (equivHHinc<$PovertyLine) if equivHHinc<.
93
94 tabulate poor poor2, missing
95
96 save PovertyWave_r, replace
97
98
99 * Section 5.3.5
100 *-----
101
102 import excel using "HHtenure2011UKcensus.xls", clear cellrange(A11:E20)
103
104 rename B HH_all
105 rename D HH_social_rented
106 rename E pr_social_rented
107
108 generate rregion2=1 if A=="North East"
109 replace rregion2=2 if A=="North West"
110 replace rregion2=3 if A=="Yorkshire and The Humber"
111 replace rregion2=4 if A=="East Midlands"
112 replace rregion2=5 if A=="West Midlands"
113 replace rregion2=6 if A=="East"
114 replace rregion2=7 if A=="London"
115 replace rregion2=8 if A=="South East"
116 replace rregion2=9 if A=="South West"
117 replace rregion2=10 if A=="Wales"
118 label define rregion2 1 "North East" 2 "North West" ///
119                 3 "Yorkshire and The Humber" ///
120                 4 "East Midlands" 5 "West Midlands" 6 "East" 7 "London" ///
121                 8 "South East" 9 "South West" 10 "Wales"
122 label value rregion2 rregion2
123
124 fre rregion2
125
126 drop A C
127 sort rregion2
128 save temp, replace
129
130 use PovertyWave_r, clear
131 sort rregion2
132 merge m:1 rregion2 using temp
133
134 fre rregion2 if _merge==1
135
136 keep if _merge==3
137 drop _merge
138
139 save PovertyWave_r, replace
140
141
142 * Section 5.4
143 *-----
144
145 use PovertyWave_r, clear
146
147 foreach var in rhgsex numkids numNotEmp femaleHoH rhhsz {
148     tabulate `var' poor, row nofreq chi2
149 }
150

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151 tabstat poor, by(rregion2) format(%9.2f)
152
153 tabstat pr_social_rented, by(poor) format(%9.2f)
154
155
156 * Section 5.6
157 *-----
158
159 use PovertyWave_r, clear
160 bysort rhid: keep if _n == 1
161 duplicates report rhid
162
163 use PovertyWave_r, clear
164 bysort rhid: keep if _n == _N
165 duplicates report rhid
166
167 use PovertyWave_r, clear
168 bysort rhid (rage): keep if _n == _N
169 duplicates report rhid
170
171
172 * Section 5.7.1
173 *-----
174
175 foreach w in q r {
176     use `w'hid `w'fihhmn `w'fiegqfcb using "$datadir/`w'hhresp", clear
177     generate equivHHinc = `w'fihhmn/`w'fiegqfcb if `w'fihhmn>=0
178     sort `w'hid
179     save temp, replace
180
181     use pid `w'hid `w'xewght using "$datadir/`w'indall", clear
182     sort `w'hid
183     merge m:1 `w'hid using temp
184     drop _merge
185     summarize equivHHinc [aweight = `w'xewght], detail
186     global PovertyLine = 0.60*r(p50)
187     generate `w'poor = (equivHHinc<$PovertyLine) if equivHHinc<.
188     keep `w'poor pid
189     sort pid
190     save PoorWave_`w', replace
191 }
192
193 use PoorWave_r, clear
194 merge 1:1 pid using PoorWave_q
195 keep if _merge==3
196 drop _merge
197
198
199 * Section 5.7.2
200 *-----
201
202 egen poorch=concat(qpoor rpoor) if qpoor<. & rpoor<.
203 tabulate poorch
204
205
206 * erase all temporary files
207 *-----
208
209 erase tempIND.dta
210 erase tempHH.dta
211 erase temp.dta
212 erase PoorWave_q.dta
213 erase PoorWave_r.dta
214 erase PovertyWave_r.dta
215 log close
216

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