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1 *****
2 * A Practical Guide to Using Panel Data
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5 * Chapter 3
6 *****
7
8 version 12
9 clear all
10 set more off
11 capture log close
12
13 * See Section 3.1.3. Best Practice
14 *-----
15
16 * 3.1.4. Portability and Reproducibility
17 *-----
18
19 global datadir "S:\final"
20 cd "C:\My Documents"
21
22 log using Example_Chapter3.log, replace
23
24 * 3.2.1. Uploading datasets in Stata format
25 *-----
26
27 describe using "$datadir/aindresp"
28
29 use "$datadir/aindresp", clear
30 describe
31 sum
32
33 * Alternative method
34 use ahid pid asex amastat aage aqfachi alknbrd apaygu ///
35     using "$datadir\aindresp", clear
36
37 * 3.3. Inspecting and recoding variables
38 *-----
39
40 list in 1/20
41 describe
42 sum
43
44 codebook
45 labelbook
46
47 tabulate asex
48 tabulate asex, nolabel
49 tabulate alknbrd
50 tabulate alknbrd, nolabel
51
52 numlabel _all, add
53 tabulate asex
54 tabulate alknbrd
55
56 numlabel _all, remove
57 tabulate asex
58 tabulate alknbrd
59
60 sum alknbrd, detail
61 inspect alknbrd
62
63 recode alknbrd -9/-1 = .
64 mvdecode apaygu, mv(-9/-1)
65 sum apaygu
66 sum apaygu, detail
67
68 sum alknbrd apaygu
69
70 tabulate alknbrd asex
71 tabulate alknbrd asex, col
72 tabulate alknbrd asex, row
73 tabulate alknbrd asex, col miss
74
75 tabulate asex alknbrd, r chi2

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76
77
78 * 3.4. Renaming, creating and labelling variables and values
79 *-----
80
81 rename alknbrd LikesNeighbourhood
82 rename asex sex
83
84 generate pay1 = 1 if apaygu <= 200
85 replace pay1 = 2 if apaygu > 200 & apaygu <= 400
86 replace pay1 = 3 if apaygu > 400 & apaygu < .
87
88 * Alternative way:
89 recode apaygu (0/200 = 1) (200/400 = 2) (400/max = 3), gen(pay2) test
90 recode apaygu (0/200 = 1) (200.01/400 = 2) (400.01/max = 3), gen(pay3) test
91 tabulate pay2 pay3
92 recode apaygu (0/200 = 1 low) (200.01/400 = 2 medium) ///
93     (400.01/max = 3 high), gen(pay4) test
94 tabulate pay3 pay4
95
96 tabulate pay1
97 label define pay1_labels 1 "low" 2 "medium" 3 "high"
98 label value pay1 pay1_labels
99 tabulate pay1
100 label list pay1_labels
101 label var pay1 "Whether pay is low, medium, or high"
102
103 generate highlypaid = (apaygu > 400 & apaygu < .)
104 tabulate highlypaid
105 xtile paidpctile = apaygu if apaygu < ., nq(5)
106 tabulate paidpctile
107
108 egen MeanPay = mean(apaygu)
109 egen MeanPayMen = mean(apaygu) if sex == 1
110 egen MeanPayWomen = mean(apaygu) if sex == 2
111 generate MeanPay2 = MeanPayMen if sex == 1
112 replace MeanPay2 = MeanPayWomen if sex == 2
113
114 generate Men = 0 if sex == 2
115 replace Men = 1 if sex == 1
116 generate Women = 0 if sex == 1
117 replace Women = 1 if sex == 2
118 * Alternative way:
119 tabulate sex, gen(Sex)
120
121 generate PersonId1 = pid
122 generate double PersonId2 = pid
123 list PersonId1 PersonId2 pid in 1/10
124
125 * 3.5. Graphs: histograms and density plots
126 * NOTE THAT THE GRAPHS DO NOT SHOW IN THE LOG FILE
127 * YOU CAN FIND THEM IN CHAPTER 3
128
129 set more on
130
131 recode amastat (0 = .)
132 * Figure 3.10
133 histogram amastat, discrete title(Histogram for Marital Status)
134 more
135 histogram amastat, discrete title(Histogram for Marital Status) scheme(slmanual)
136 more
137 * Figure 3.11
138 histogram amastat, discrete title(Histogram for Marital Status) ///
139     scheme(slmanual) by(sex)
140 more
141 * Figure 3.12
142 histogram amastat, discrete xlabel(1(1)6, valuelabel angle(45)) ///
143     scheme(slmanual) by(sex, title(Histogram for Marital Status))
144 more
145
146 histogram amastat, discrete title(Histogram for Marital Status) ///
147     scheme(slmanual)
148 more
149 histogram amastat, discrete title(Histogram for Marital Status) ///
150     scheme(slmanual) freq

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151 more
152
153 histogram amastat, discrete xlabel(1(1)6, valuelabel angle(45)) ///
154     scheme(s1manual) by(sex, title(Histogram for Marital Status)) ///
155     saving("C:\My Documents\Graph1", replace)
156 more
157
158 histogram apaygu, title(Histogram for Pay) scheme(s1manual)
159 more
160 histogram apaygu, normal kdensity ///
161     title(Histogram for Pay) legend(on) scheme(s1manual)
162 more
163
164 * Figure 3.13
165 histogram apaygu, scheme(s1manual) ///
166     normal normopts(lcolor(black) lpattern(solid)) ///
167     kdensity kdenopts(lcolor(black) lwidth(thick) lpattern(dash)) ///
168     title(Histogram for Pay) legend(on)
169 more
170 kdensity apaygu, scheme(s1manual)
171 more
172 kdensity apaygu, normal scheme(s1manual)
173 more
174
175 * Figure 3.13
176 kdensity apaygu, lcolor(black) lwidth(thick) lpattern(dash) ///
177     normal normopts(lcolor(black) lpattern(solid)) ///
178     scheme(s1manual)
179
180 * 3.6 Clean Up and Save Datasets for Future Use
181 drop pay2 pay3 pay4
182 save DataChapter3.dta, replace
183
184
185 log close
186
187
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