
name: <unnamed>
log: /Users/baum/Documents/Courses 2010-2011/EC22802 F2010/ec228_f2010_day1.smcl
log type: smcl
opened on: 14 Jul 2010, 10:45:33

1 .
2 . // ec228_f2010_day1 cfb 14jul2010
3 .
4 . // display the codebook
5 . type http://fmwww.bc.edu/ec-p/data/wooldridge/crime1.des

CRIME1.DES

narr86	nfarr86	nparr86	pcnv	avgsen	totttime	ptime86	qemp86
inc86	durat	black	hispan	born60	pcnvsq	pt86sq	inc86sq

Obs: 2725

1. narr86	# times arrested, 1986
2. nfarr86	# felony arrests, 1986
3. nparr86	# property crme arr., 1986
4. pcnv	proportion of prior convictions
5. avgsen	avg sentence length, mos.
6. tottime	time in prison since 18 (mos.)
7. ptime86	mos. in prison during 1986
8. qemp86	# quarters employed, 1986
9. inc86	legal income, 1986, \$100s
10. durat	recent unemp duration
11. black	=1 if black
12. hispan	=1 if Hispanic
13. born60	=1 if born in 1960
14. pcnvsq	pcnv^2
15. pt86sq	ptime86^2
16. inc86sq	inc86^2

```

6 .
7 . // read in the data
8 . use http://fmwww.bc.edu/ec-p/data/wooldridge/crime1, clear

9 .
10 . // describe its contents and calculate descriptive stats
11 . describe

```

Contains data from <http://fmwww.bc.edu/ec-p/data/wooldridge/crime1.dta>

```

obs:      2,725
vars:      16              10 Jan 2000 16:54
size:     196,200 (99.9% of memory free)

```

variable name	storage type	display format	value label	variable label
narr86	float	%9.0g		
nfarr86	float	%9.0g		
nparr86	float	%9.0g		
pcnv	float	%9.0g		
avgsen	float	%9.0g		
totttime	float	%9.0g		
ptime86	float	%9.0g		
qemp86	float	%9.0g		
inc86	float	%9.0g		
durat	float	%9.0g		
black	float	%9.0g		
hispan	float	%9.0g		
born60	float	%9.0g		
pcnvsq	float	%9.0g		
pt86sq	float	%9.0g		
inc86sq	float	%9.0g		

Sorted by:

Ha: diff < 0
Pr(T < t) = **0.0000**

Ha: diff != 0
Pr(|T| > |t|) = **0.0000**

Ha: diff > 0
Pr(T > t) = **1.0000**

16 .
17 . // tabulate number of arrests
18 . tab narr86

narr86	Freq.	Percent	Cum.
0	1,970	72.29	72.29
1	559	20.51	92.81
2	121	4.44	97.25
3	42	1.54	98.79
4	12	0.44	99.23
5	13	0.48	99.71
6	4	0.15	99.85
7	1	0.04	99.89
9	1	0.04	99.93
10	1	0.04	99.96
12	1	0.04	100.00
Total	2,725	100.00	

19 .
20 . // regression of number of arrests on legal income
21 . regress narr86 inc86

Source	SS	df	MS	Number of obs =	2725
Model	72.5556076	1	72.5556076	F(1, 2723) =	101.96
Residual	1937.79155	2723	.711638468	Prob > F =	0.0000
Total	2010.34716	2724	.738012906	R-squared =	0.0361
				Adj R-squared =	0.0357
				Root MSE =	.84359

narr86	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
inc86	-.0024495	.0002426	-10.10	0.000	-.0029252 -.0019738
_cons	.5390463	.0209514	25.73	0.000	.4979641 .5801286

```

22 .
23 . // consider prior convictions, unemployment, race as well
24 . regress narr86 inc86 pcnv durat black hispan

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Source	SS	df	MS	Number of obs =	2725
Model	126.105393	5	25.2210787	F(5, 2719) =	36.39
Residual	1884.24176	2719	.692990718	Prob > F =	0.0000
				R-squared =	0.0627
				Adj R-squared =	0.0610
Total	2010.34716	2724	.738012906	Root MSE =	.83246

narr86	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
inc86	-.0021246	.0002572	-8.26	0.000	-.0026289	-.0016203
pcnv	-.1418213	.0404691	-3.50	0.000	-.2211747	-.0624679
durat	.002914	.0036923	0.79	0.430	-.0043259	.010154
black	.3257535	.0452257	7.20	0.000	.2370734	.4144337
hispan	.1804347	.039774	4.54	0.000	.1024443	.258425
_cons	.4736218	.0322772	14.67	0.000	.4103314	.5369122

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25 .
26 . log close
    name: <unnamed>
    log: /Users/baum/Documents/Courses 2010-2011/EC22802 F2010/ec228_f2010_day1.smcl
    log type: smcl
    closed on: 14 Jul 2010, 10:45:40

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