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log: /Users/yushujiang/Desktop/ECO220/Labs/Problemset6/analysis/jiang_ps6_

> 3.log

log type: text opened on: 4 Dec 2018, 13:31:30

. sum violent_crime_rate

Variable	Obs	Mean	Std. Dev.	Min	Max
violent cr~e	51	441.6275	241.3983	81	1508

. sum violent_crime_rate, d

violent crime rate

	Percentiles	Smallest		
1%	81	81		
5%	114	110		
10%	237	114	Obs	51
25%	281	167	Sum of Wgt.	51
50%	384		Mean	441.6275
		Largest	Std. Dev.	241.3983
75%	554	787		
90%	707	805	Variance	58273.16
95%	805	812	Skewness	1.757343
99%	1508	1508	Kurtosis	8.609668

- . histogram violent crime rate, frequency (bin=7, start=81, width=203.85714)
- . histogram violent_crime_rate, bin(15) frequency (bin=15, start=81, width=95.133333)
- . histogram violent_crime_rate if violent_crime_rate<1508, bin(15) frequency (bin=15, start=81, w \bar{i} dth=4 $\bar{8}$.733333)
- . sum police, d

police

	Percentiles	Smallest		
1%	104	104		
5%	133	122		
10%	145	133	Obs	51
25%	163	139	Sum of Wgt.	51
50%	190		Mean	224.5294
		Largest	Std. Dev.	170.2403
75%	234	300		
90%	282	351	Variance	28981.77
95%	351	412	Skewness	5.80764
99%	1348	1348	Kurtosis	38.74889

. sum violent_crime_rate, d, if police < 190

violent crime rate

	Percentiles	Smallest		
1%	81	81		
5%	110	110		
10%	114	114	Obs	25

	2	253	167	Sum of Wgt	.	25	
50%		T.ar	rgest	Mean Std. Dev.	179.		
75%	4	190	505				
90%		545	545	Variance	3216	7.58	
95%				Skewness		4235	
99%	8	305	805	Kurtosis	3.03	5617	
. S1	um violent_	_crime_rate, c	d, if police	e >= 190			
		violer	nt_crime_ra	te 			
	Percenti	iles Smal	lest				
1%	2	237	237				
5%	2	244	244				
10%	2	256	256 267	Obs		26	
25%	3	325	267	Sum of Wgt	: •	26	
50%				Mean	517.	2308	
000			rgest	Std. Dev.			
75%	6	557	758				
90%		787	787 812	Variance	7353	8.66	
95%	3	312	812	Skewness	1.87	7646	
99%	15	508	1508	Kurtosis	7.78	7241	
. r	egress viol	lent_crime_rat	te poverty				
		SS		MS	Number	of obs = 9) =	= 51
		100120 101					
		489129.494 2424528.43			R-squa	red =	= 0.0028 = 0.1679
					- Adi R-	red =	= 0.1509
	Total	2913657.92	50	58273.1584		ISE =	
			C+ 1				To be seen 1.1
vio	lent_cr~e	Coef.	Std. Err.	t	P> t	[95% Conf.	. Interval]
vio	lent_cr~e poverty	Coef. 32.69674	Std. Err. 10.3994	t 3.14	P> t 0.003	[95% Conf. 11.79837	53.59511
vio	lent_cr~e poverty	Coef. 32.69674 63.75569	Std. Err. 10.3994 124.1551	t 3.14 0.51	P> t 0.003 0.610	[95% Conf. 11.79837 -185.7433	53.59511 313.2547
	lent_cr~e 	Coef. 32.69674	Std. Err. 10.3994 124.1551	3.14 0.51	P> t 0.003 0.610	[95% Conf. 11.79837 -185.7433	53.59511 313.2547
	poverty _cons egress viol	Coef. 32.69674 63.75569 	Std. Err. 10.3994 124.1551 te single_p	3.14 0.51	P> t 0.003 0.610	[95% Conf. 11.79837 -185.7433	53.59511 313.2547
	poverty cons cons cons cons cons cons cons cons	Coef. 32.69674 63.75569 Lent_crime_rat	Std. Err. 10.3994 124.1551 Te single_p. df	3.14 0.51 arent	P> t 0.003 0.610 Number	[95% Conf. 	53.59511 313.2547
	poverty cons cons cons cons cons cons cons cons	Coef. 32.69674 63.75569 Lent_crime_rat	Std. Err. 10.3994 124.1551 Te single_p. df	3.14 0.51 arent	P> t 0.003 0.610 Number	[95% Conf. 	53.59511 313.2547
	poverty cons cons cons cons cons cons cons cons	Coef. 32.69674 63.75569 Lent_crime_rat	Std. Err. 10.3994 124.1551 Te single_p. df	3.14 0.51 arent	P> t 0.003 0.610 Number	[95% Conf. 	53.59511 313.2547
	poverty _cons egress viol Source Model Residual	Coef. 32.69674 63.75569 	Std. Err. 10.3994 124.1551 Te single_p. df 1 49	3.14 0.51 arent MS 1730496.32 24146.1552	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R-	[95% Conf. 	53.59511 313.2547 = 51 = 71.67 = 0.0000 = 0.5939 = 0.5856
. re	poverty cons segress viol Source Model Residual	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92	Std. Err. 10.3994 124.1551 The single_part of the single	3.14 0.51 arent MS 1730496.32 24146.1552	P> t 0.003 0.610 Number - F(1, 4 2 Prob > 2 R-squa - Adj R- 4 Root M	[95% Conf. 11.79837 -185.7433 	53.59511 313.2547 = 51 = 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39
. re	poverty _cons egress viol Source Model Residual Total	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92	Std. Err. 10.3994 124.1551 Te single_p df 1 49 50 Std. Err	3.14 0.51 arent MS 1730496.32 24146.1552 58273.1584	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R- Root M	[95% Conf. 11.79837 -185.7433 of obs = 9) = F = red = squared = SE = [95% Conf.	53.59511 313.2547 = 51 = 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39
. re	poverty cons gress viol Source Model Residual Total lent_cri~e gle parent	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92 Coef.	Std. Err. 10.3994 124.1551 The single_p. df 1 49 50 Std. Err 5.13587	t 3.14 0.51 arent MS 1730496.32 24146.1552 58273.1584	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R- Root M P> t 0.000	[95% Conf. 11.79837 -185.7433 of obs = 9) = F = red = squared = SE = [95% Conf.	53.59511 313.2547 = 51 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39 f. Interval]
vio	poverty _cons egress viol Source Model Residual Total lent_cri~e gle_parent _cons	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92	Std. Err. 10.3994 124.1551 Te single_p df 1 49 50 Std. Err 5.13587 122.1134	3.14 0.51 arent MS 1730496.32 24146.1552 58273.1584	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R- Root M P> t 0.000	[95% Conf. 11.79837 -185.7433 of obs = 9) = F = red = squared = SE = [95% Conf.	53.59511 313.2547 = 51 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39 f. Interval]
· re	poverty cons sqress viol Source Model Residual Total lent_cri~e gle_parent cons egress viol	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92 Coef. 43.47858 -575.6008	Std. Err. 10.3994 124.1551 The single_part of the single	3.14 0.51 arent MS 1730496.32 24146.1552 58273.1584	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R- Root M P> t 0.000 0.000	[95% Conf	53.59511 313.2547 = 51 = 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39 = 155.39 = 53.79949 -330.2046
· re	poverty cons sqress viol Source Model Residual Total lent_cri~e gle_parent cons egress viol	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92 Coef. 43.47858 -575.6008	Std. Err. 10.3994 124.1551 The single_part of the single	3.14 0.51 arent MS 1730496.32 24146.1552 58273.1584	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R- Root M P> t 0.000 0.000	[95% Conf	53.59511 313.2547 = 51 = 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39 = 155.39 = 330.2046
· re	povertycons egress viol Source Model Residual Total lent_cri~e gle_parentcons egress viol Source Model	Coef. 32.69674 63.75569 Lent_crime_rat SS 1730496.32 1183161.61 2913657.92 Coef. 43.47858 -575.6008	Std. Err. 10.3994 124.1551 2e single_p. df 1 49 50 Std. Err 5.13587 122.1134 2e unemploy. df	t 3.14 0.51	P> t 0.003 0.610 Number F(1, 4 Prob > R-squa Adj R- Root M P> t 0.000 0.000 Number F(1, 4	[95% Conf	53.59511 313.2547 = 51 = 71.67 = 0.0000 = 0.5939 = 0.5856 = 155.39 =

Total	+	2913657.92		50	58273.15	 84	_	R-squar MSE	red = =	0.1631 220.83
violent_cr~e		Coef.	Std.	Err.	t	P>	t	[95%	Conf.	Interval]
unemployed _cons	 	105.0318 27.67848	32.0 130.		3.28 0.21		002 832	40. -233.	6435 5852	169.4202 288.9421

- . twoway(scatter violent_crime_rate poverty) (lfit violent_crime_rate poverty)
- . twoway(scatter violent_crime_rate single_parent) (lfit violent_crime_rate single
 > _parent)
- . twoway(scatter violent_crime_rate unemployed) (lfit violent_crime_rate unemploye > d)
- . sum high_school

Variable	Obs	Mean	Std. Dev.	Min	Max
high school	51	85.43725	3.932987	77.1	91.8

- . gen literate == (high_school > 85)
 == invalid name
 r(198);
- . gen literate = (high school > 85)
- . sum violent crime rate if literate ==1

Variable	Obs	Mean	Std. Dev.	Min	Max
violent_cr~e	32	357.9063	171.3923	81	787

. sum violent crime rate if literate == 0

Variable	Obs (Mean	Std. Dev.	. Min	Max
violent cr~e	+ 19	582.6316	278.9829	 295	1508

. regress violent_crime_rate literate

Sourc	e	SS	df	MS	Number of obs	=	51
	+				F(1, 49)	=	12.76
Mode	1	602056.782	1	602056.782	Prob > F	=	0.0008
Residua	1	2311601.14	49	47175.5335	R-squared	=	0.2066
	+				Adj R-squared	=	0.1904
Tota	1	2913657.92	50	58273.1584	Root MSE	=	217.2

violent_cr~e	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
	-224.7253 582.6316				-351.1396 482.4966	-98.31109 682.7666

. regress violent crime rate poverty single parent unemployed

Source		SS	df	MS	Number of obs	=	51
	+-				F(3, 47)	=	24.01
Model		1763274.12	3	587758.041	Prob > F	=	0.0000
Residual		1150383.8	47	24476.251	R-squared	=	0.6052

+ Total	2913657.92	50	58273.1584	_	R-squared = MSE =	0.0000
violent_cr~e	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
poverty single_par~t unemployed _cons	-2.684261 41.30001 31.9965 -619.713	9.597977 6.096157 28.52134 130.0673	-0.28 6.77 1.12 -4.76	0.781 0.000 0.268 0.000	-21.9929 29.03612 -25.38104 -881.3746	16.62438 53.56389 89.37404 -358.0513

. cmdlog close

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> 3.log

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