

Assignment3

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Regression analysis

Table 1: Regression analysis regarding (non-) violent and total crimes and independent variable marriage

	<i>Dependent variable:</i>		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
marriageRel	19.10 (706.13)	-384.95 (2,739.59)	-365.85 (3,399.17)
DensityPerSQRTkm100	194.76*** (14.89)	573.28*** (57.77)	768.04*** (71.68)
PopulationYoung	4.59 (40.11)	149.86 (155.61)	154.45 (193.08)
MalePopulationRel	251.71* (130.91)	474.96 (507.90)	726.67 (630.18)
UnemployedPercentage	45.89 (32.30)	405.10*** (125.30)	451.00*** (155.47)
Constant	-12,157.73* (6,530.90)	-26,817.01 (25,338.28)	-38,974.73 (31,438.68)
Observations	408	408	408
R ²	0.42	0.35	0.37
Adjusted R ²	0.41	0.34	0.36

Note:

*p<0.1; **p<0.05; ***p<0.01

This regression output shows the results using 3 different dependent variables

Table 2: Regression analysis regarding (non-) violent and total crimes and independent variable religion

	<i>Dependent variable:</i>		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
BelieversPercent	-4.94 (5.85)	-37.68* (22.66)	-42.62 (28.13)
DensityPerSQRTkm100	194.83*** (14.82)	567.19*** (57.38)	762.02*** (71.23)
PopulationYoung	26.53 (47.91)	316.11* (185.54)	342.64 (230.31)
MalePopulationRel	229.49* (129.30)	367.64 (500.73)	597.13 (621.56)
UnemployedPercentage	26.87 (36.07)	297.09** (139.69)	323.97* (173.39)
Constant	-11,142.60* (6,337.41)	-22,543.68 (24,541.69)	-33,686.28 (30,464.01)
Observations	402	402	402
R ²	0.42	0.35	0.37
Adjusted R ²	0.41	0.35	0.37

Note:

*p<0.1; **p<0.05; ***p<0.01

This regression output shows the results using 3 different dependent variables

Table 3: Regression analysis regarding (non-) violent and total crimes and independent variable in- and outflow

	<i>Dependent variable:</i>		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
FlowPercent	−23.12 (30.35)	−204.42* (117.38)	−227.53 (145.75)
DensityPerSQRTkm100	195.71*** (14.55)	584.37*** (56.29)	780.08*** (69.89)
PopulationYoung	15.89 (42.71)	249.02 (165.22)	264.91 (205.14)
MalePopulationRel	240.65* (127.41)	402.64 (492.82)	643.29 (611.91)
UnemployedPercentage	42.31 (32.58)	374.52*** (126.01)	416.84*** (156.46)
Constant	−11,570.93* (6,269.89)	−23,152.14 (24,252.45)	−34,723.07 (30,113.28)
Observations	408	408	408
R ²	0.42	0.35	0.37
Adjusted R ²	0.41	0.35	0.37

Note:

*p<0.1; **p<0.05; ***p<0.01

This regression output shows the results using 3 different dependent variables

Table 4: Regression analysis regarding (non-) violent and total crimes and independent variable voter turnout

	<i>Dependent variable:</i>		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
TurnoutPercentage	104.86*** (20.07)	522.73*** (76.11)	627.59*** (94.79)
DensityPerSQRTkm100	198.41*** (14.05)	593.79*** (53.28)	792.20*** (66.36)
PopulationYoung	-41.84 (39.81)	-82.21 (150.99)	-124.05 (188.04)
MalePopulationRel	354.10*** (124.28)	1,007.55** (471.39)	1,361.65** (587.06)
UnemployedPercentage	94.73*** (32.59)	649.49*** (123.63)	744.22*** (153.96)
Constant	-23,852.99*** (6,438.67)	-86,440.42*** (24,422.52)	-110,293.40*** (30,415.12)
Observations	408	408	408
R ²	0.45	0.42	0.43
Adjusted R ²	0.45	0.41	0.42

Note:

*p<0.1; **p<0.05; ***p<0.01

This regression output shows the results using 3 different dependent variables

Table 5: Regression analysis regarding (non-) violent and total crimes and all independent variables at the same time

	<i>Dependent variable:</i>		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
marriageRel	261.55 (758.70)	1,923.16 (2,857.51)	2,184.70 (3,564.77)
TurnoutPercentage	106.09*** (20.43)	522.20*** (76.95)	628.29*** (96.00)
BelieversPercent	-3.34 (5.93)	-35.59 (22.34)	-38.93 (27.86)
FlowPercent	-41.72 (32.02)	-321.18*** (120.60)	-362.90** (150.45)
DensityPerSQRTkm100	202.79*** (14.87)	613.15*** (56.00)	815.94*** (69.85)
PopulationYoung	-6.91 (53.02)	233.63 (199.70)	226.72 (249.13)
MalePopulationRel	326.49** (133.24)	801.49 (501.83)	1,127.98* (626.04)
UnemployedPercentage	72.03* (37.82)	487.20*** (142.45)	559.23*** (177.71)
Constant	-22,694.38*** (6,980.35)	-77,553.84*** (26,290.20)	-100,248.20*** (32,797.21)
Observations	402	402	402
R ²	0.46	0.43	0.44
Adjusted R ²	0.45	0.42	0.43

Note:

*p<0.1; **p<0.05; ***p<0.01

This regression output shows the results using 3 different dependent variables