Assignment3

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Regression analysis

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

	Dependent variable:		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
marriageRel	19.10	−384.95	−365.85
	(706.13)	(2,739.59)	(3,399.17)
DensityPerSQRTkm100	194.76***	573.28***	768.04***
	(14.89)	(57.77)	(71.68)
PopulationYoung	4.59	149.86	154.45
	(40.11)	(155.61)	(193.08)
MalePopulationRel	251.71*	474.96	726.67
	(130.91)	(507.90)	(630.18)
UnemployedPercentage	45.89	405.10***	451.00***
	(32.30)	(125.30)	(155.47)
Constant	−12,157.73*	−26,817.01	−38,974.73
	(6,530.90)	(25,338.28)	(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

	Dependent variable:		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
BelieversPercent	−4.94	−37.68*	−42.62
	(5.85)	(22.66)	(28.13)
DensityPerSQRTkm100	194.83***	567.19***	762.02***
	(14.82)	(57.38)	(71.23)
PopulationYoung	26.53	316.11*	342.64
	(47.91)	(185.54)	(230.31)
MalePopulationRel	229.49*	367.64	597.13
	(129.30)	(500.73)	(621.56)
UnemployedPercentage	26.87	297.09**	323.97*
	(36.07)	(139.69)	(173.39)
Constant	−11,142.60*	−22,543.68	−33,686.28
	(6,337.41)	(24,541.69)	(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

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

	Dependent variable:		
	CrimeViolentSum	CrimeNonViolentSum	CrimeTotalSum
	(1)	(2)	(3)
TurnoutPercentage	104.86***	522.73***	627.59***
	(20.07)	(76.11)	(94.79)
DensityPerSQRTkm100	198.41***	593.79***	792.20***
	(14.05)	(53.28)	(66.36)
PopulationYoung	−41.84	−82.21	−124.05
	(39.81)	(150.99)	(188.04)
MalePopulationRel	354.10***	1,007.55**	1,361.65**
	(124.28)	(471.39)	(587.06)
UnemployedPercentage	94.73***	649.49***	744.22***
	(32.59)	(123.63)	(153.96)
Constant	−23,852.99***	−86,440.42***	−110,293.40***
	(6,438.67)	(24,422.52)	(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

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