Multivariate Lab Exercises

Getting Started

Remember again to put on the filter

- Think about which independent variables you want to use
- For today we will only look at one dependent variable, so choose the one that you think does the best job in measuring the issue you are interested in.

For example, if you are interested in gender equality, choose the one question that you think most clearly shows gender attitudes. If you are choosing marketliberalism, think whether less regulation really is the best question or should you choose a different question.

After adding the filter, go to linear regression

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Ask for collinearity diagnostics under "test" (you can also choose Durbin-Watson and casewise diagnostics if you want to test for heteroscedasticity, but consult the textbooks for advise)

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The F-statistic shows that the model as a whole is significant, but this is almost ALWAYS the case, so it tells you when the model is bad, but not when it is good

ANOVAb

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9.125	3	3.042	3.053	.028 ^a
	Residual	1112.752	1117	.996		
	Total	1121.877	1120			

a. Predictors: (Constant), R: Education II-highest education level, R: Sex, R: Age

Which variable(s) is/are significant? Which Variable explainces the greatest amount of variance?

	Coefficients ^a											
			lardized cients	Standardized Coefficients			Collinearity	Statistics				
Model		В	Std. Error	Beta	t	Sig.	Tolerance	VIF				
1	(Constant)	3.639	.151		24.082	.000						
	R: Sex	090	.060	045	-1.491	.136	.997	1.003				
	R: Age	.000	.002	005	164	.869	.990	1.010				
	R: Education II-highest education level	.071	.027	.077	2.576	.010	.993	1.007				

Which variable(s) is/are significant?

		lardized cients	Standardized Coefficients			Collinearity	/ Statistics
Model	В	Std. Error	Beta	t	Sig.	Tolerance	VIF
1 (Constant)	3.639	.151		24.082	.000		
R: Sex	090	.060	045	-1.491	.136	.997	1.003
R: Age	.000	.002	005	164	.869	.990	1.010
R: Education II-highest education level	.071	.027	.077	2.576	.010	.993	1.007

Is there a problem with Collinearity?

	Coefficients											
		Unstandardized Coefficients		Standardized Coefficients			Collinearity Statistics					
Model		В	Std. Error	Beta	t	Sig.	Tolerance	VIF				
1	(Constant)	3.639	.151		24.082	.000						
	R: Sex	090	.060	045	-1.491	.136	.997	1.003				
	R: Age	.000	.002	005	164	.869	.990	1.010				
	R: Education II-highest education level	.071	.027	.077	2.576	.010	.993	1.007				

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Nevertheless, SEX and AGE are rather equally distributed on dimensions 3 and 4 which indicates there could be a problem between them

Collinearity Diagnostics

Γ						Variance	Proportions	
				Condition				R: Education II-highest education
Ν	Nodel	Dimension	Eigenvalue	Index	(Constant)	R: Sex	R: Age	level
1		1	3.735	1.000	.00	.01	.01	.01
		2	.144	5.100	.00	.03	.21	.67
		3	.093	6.352	.00	.55	.46	.06
		4	.029	11.427	.99	.42	.32	.26

Next step

Probably only educational level is a good predictor, so it would be best to use a bivariate regression or replace SEX and AGE with some other variables

 But since there might have been a problem of collinearity between AGE and SEX and since AGE had a much lower std. Coefficient, we will eliminate AGE now and see if SEX become significant

Elminate AGE

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250 tw_reg	Numeric	2	0	Region: Taiwar			, NAP, other		8	Right	Nominal	
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Sex is still insignificant

Coefficients

			Standardized Coefficients			Collinearity Statistics	
Model	В	Std. Error	Beta	t	Sig.	Tolerance	VIF
1 (Constant)	3.618	.124		29.265	.000		
R: Sex	089	.060	044	-1.483	.138	1.000	1.000
R: Education II-hig education level	.073	.027	.079	2.667	.008	1.000	1.000

Adjusted R-square

Increased now from .005 to .007
(Not shown here)
So eliminating a variable made the model better
But still it cannot explain even 1% of the change in LESSREG

With only EDUCATIONAL LEVEL: it is significant, but the adjusted r-square is only .06, so again it shows we should look for different variables

Coefficients

			dardized cients	Standardized Coefficients			Collinearity	/ Statistics
Model		В	Std. Error	Beta	t	Sig.	Tolerance	VIF
1	(Constant)	3.475	.078		44.504	.000		
	R: Education II-highe education level	.073	.027	.080	2.689	.007	1.000	1.000

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Your Task

Run a multiple regession with the dependent variable you have chosen and at least 5 independent variables Eliminate all the variables that are not significant Make sure there is no-collinearity Try to make the best model Make a table in Word