

Regression Lab Exercises

Crosstabs

- Good to give a general picture
- Good to compare dependent variables between groups (countries, sex)
- Can visually see connection between dependent and independent variables

Crosstab to Compare Countries

issp2006steve.sav [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Reports
 Descriptive Statistics
 Tables
 Compare Means
 General Linear Model
 Generalized Linear Models
 Mixed Models
 Correlate
 Regression
 Loglinear
 Classify
 Data Reduction
 Scale
 Nonparametric Tests
 Time Series
 Survival
 Multiple Response
 Missing Value Analysis...
 Complex Samples
 Quality Control
 ROC Curve...

Frequencies...
 Descriptives...
 Explore...
Crosstabs...
 Ratio...
 P-P Plots...
 Q-Q Plots...

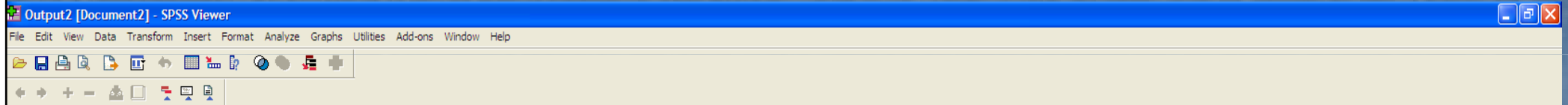
Name	Type	Values	Missing	Columns	Align	Measure	
268 hu_size	Numeric	NAP, other	0	9	Right	Nominal	
269 ie_size	Numeric	NAP, other	0, 99	9	Right	Nominal	
270 il_size	Numeric	NAP, other	0	9	Right	Nominal	
271 jp_size	Numeric	NAP, other	0	9	Right	Nominal	
272 kr_size	Numeric	NAP, other	0	9	Right	Nominal	
273 lv_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
274 nl_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
275 no_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
276 nz_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
277 ph_size	Numeric	Size of commu	{0, Not availabl	0	9	Right	Nominal
278 pl_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
279 pt_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
280 ru_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
281 se_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
282 si_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
283 tw_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
284 us_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
285 uy_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
286 ve_size	Numeric	Size of commu	{0, Not availabl	0	9	Right	Nominal
287 za_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
288 urbrural	Numeric	Type of comm	{0, Not availabl	0, 9	10	Right	Nominal
289 ethnic	Numeric	Family origin	{0, Not availab	0, 99, 0	8	Right	Scale
290 mode	Numeric	Administrative	{10, F2f, pap a	0	6	Right	Nominal
291 weight	Numeric	Weighting fact	{1.00000000,	None	13	Right	Scale
292 LESSREG	Numeric		{1.00, strongly	None	10	Right	Scale
293 Czech	Numeric		None	None	10	Right	Scale
294 filter_\$	Numeric	Czech = 1 (FIL	{0, Not Selecte	None	10	Right	Scale
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Data View Variable View

SPSS Processor is ready

start | Inbox - Outlook Express | Microsoft PowerPoint ... | Steven Saxonberg - ... | Outlook Express | Google - Mozilla Firefox | Skype™ - rattvik90 | 10:53 AM Sunday 2/15/2009

Then click "continue" then "OK"



	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
LESSREG * Country/Sample (see V3A for codes for whole nation states)	43728	89.9%	4913	10.1%	48641	100.0%

LESSREG * Country/Sample (see V

			AU-Australia	CA-Canada	CL-Chile	TW-Taiwan	HR-Croatia	CZ-Czech Republic	DK-Denmark	DO-Dominican Republic	FI-Finland	FR-France	DE-W-Germany-West	DE-E-Germany-East	HU-Hungary	IE-Ireland	IL-Israel-Jer
LESSREG	strongly against	Count	89	33	120	50	22	28	123	152	46	97	21	14	23	30	
		% within LESSREG	4.1%	1.5%	5.6%	2.3%	1.0%	1.3%	5.7%	7.1%	2.1%	4.5%	1.0%	.7%	1.1%	1.4%	2.3%
		% within Country/Sample (see V3A for codes for whole nation states)	3.6%	3.9%	8.3%	2.8%	2.1%	2.5%	11.0%	7.5%	5.0%	5.7%	2.1%	2.8%	2.6%	3.1%	5.1%
		% of Total	.2%	.1%	.3%	.1%	.1%	.1%	.3%	.3%	.1%	.2%	.0%	.0%	.1%	.1%	.1%
	against	Count	395	111	514	447	93	114	248	440	146	211	82	34	143	178	1
		% within LESSREG	5.2%	1.5%	6.7%	5.9%	1.2%	1.5%	3.2%	5.8%	1.9%	2.8%	1.1%	.4%	1.9%	2.3%	2.6%
		% within Country/Sample (see V3A for codes for whole nation states)	15.8%	13.1%	35.6%	24.6%	9.0%	10.0%	22.1%	21.8%	16.0%	12.5%	8.0%	6.8%	15.9%	18.6%	20.1%
		% of Total	.9%	.3%	1.2%	1.0%	.2%	.3%	.6%	1.0%	.3%	.5%	.2%	.1%	.3%	.4%	.5%
	neither nor	Count	787	258	369	466	280	307	318	341	435	337	189	66	274	245	2
		% within LESSREG	6.6%	2.2%	3.1%	3.9%	2.4%	2.6%	2.7%	2.9%	3.7%	2.8%	1.6%	.6%	2.3%	2.1%	2.5%
		% within Country/Sample (see V3A for codes for whole nation states)	31.4%	30.4%	25.6%	25.6%	27.0%	27.0%	28.4%	16.9%	47.5%	19.9%	18.5%	13.1%	30.4%	25.6%	30.2%
		% of Total	1.8%	.6%	.8%	1.1%	.6%	.7%	.7%	.8%	1.0%	.4%	.2%	.6%	.6%	.7%	
	in favor of	Count	876	326	333	695	379	439	299	831	238	572	341	202	292	346	3
		% within LESSREG	5.8%	2.2%	2.2%	4.6%	2.5%	2.9%	2.0%	5.5%	1.6%	3.8%	2.3%	1.3%	1.9%	2.3%	2.2%
		% within Country/Sample (see V3A for codes for whole nation states)	34.9%	38.4%	23.1%	38.2%	36.6%	38.7%	26.7%	41.1%	26.0%	33.8%	33.3%	40.2%	32.4%	36.2%	33.7%
		% of Total	2.0%	.7%	.8%	1.6%	.9%	1.0%	.7%	1.9%	.5%	1.3%	.8%	.5%	.7%	.8%	
	strongly in favor of	Count	360	122	106	160	262	247	132	256	50	474	391	187	169	157	1
		% within LESSREG	5.2%	1.7%	1.5%	2.3%	3.8%	3.5%	1.9%	3.7%	.7%	6.8%	5.6%	2.7%	2.4%	2.2%	1.5%
		% within Country/Sample (see V3A for codes for whole nation states)	14.4%	14.4%	7.4%	8.8%	25.3%	21.8%	11.8%	12.7%	5.5%	28.0%	38.2%	37.2%	18.8%	16.4%	10.9%
		% of Total	.8%	.3%	.2%	.4%	.6%	.6%	.3%	.6%	.1%	1.1%	.9%	.4%	.4%	.2%	
Total	Count		2507	850	1442	1818	1036	1135	1120	2020	915	1691	1024	503	901	956	9
		% within LESSREG	5.7%	1.9%	3.3%	4.2%	2.4%	2.6%	2.6%	4.6%	2.1%	3.9%	2.3%	1.2%	2.1%	2.2%	2.3%
		% within Country/Sample															

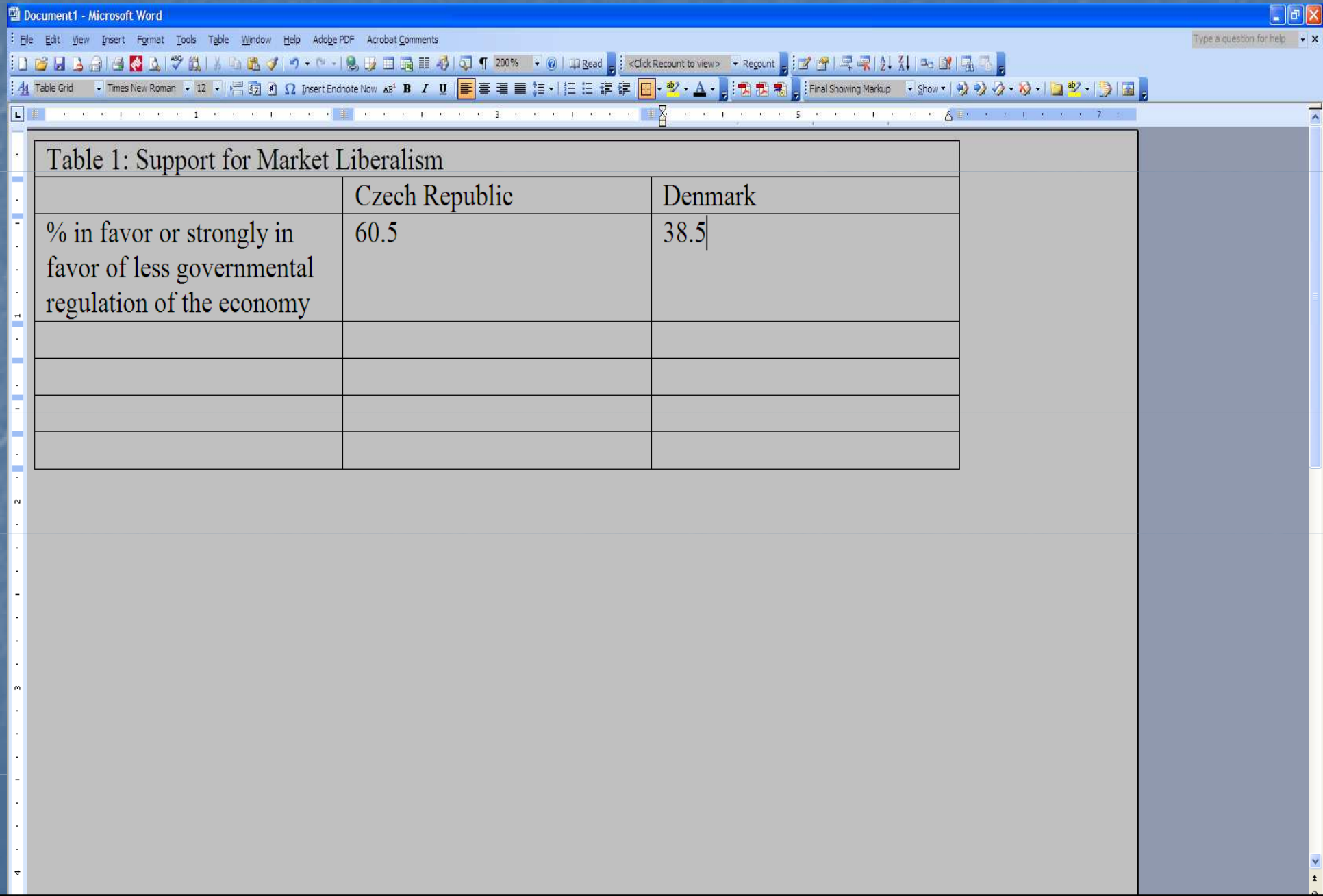
How to read the crosstab

- In the columns we have the countries
- In the rows we have the numbers and percentages of people giving a certain response to the question of whether they think the government should regulate industry less.
- In the first row we see that 28 people or 2.5% of Czechs were strongly against less government regulation, while 123 or 11% of the Danes were strongly against.
- In the second row we see that 114 Czechs or 10% were against less government regulation, while 148 Danes or 22.1% were against less government regulation.

Making your own table

- You must decide what you are measuring
- For this example it is "degree of market liberalism" which is why we recoded to make 5 = strongly agree, rather than 1 = strongly agree as it originally was coded
- If we were measuring degree of support for social democratic policies, we would have kept the original coding for this question, but changed it for the other questions that gave the lowest score (1) for supporting state policies
- Calculate the % in favor or strongly in favor of LESSREG for 2 countries and make a table in Word
- These are the *last* two responses. The first two that we already discussed measured the % against or strongly against, that is it measured **OPPOSITION** to market liberalism, while the table we will make now will show **SUPPORT** for market liberalism.

This is what the table would look like



Document1 - Microsoft Word

File Edit View Insert Format Tools Table Window Help Adobe PDF Acrobat Comments

Table Grid Times New Roman 12 Insert Endnote Now **A** **B** **I** **U** Final Showing Markup Show

Table 1: Support for Market Liberalism

	Czech Republic	Denmark
% in favor or strongly in favor of less governmental regulation of the economy	60.5	38.5

Your Next Step

- Choose 5 questions that measure the issue you are interested in
- In the last session you recoded questions so that they are all in the same direction
- So use these questions again
- It could be anything, like support for welfare, tolerance toward immigrants, etc.
- Make a table based on combining these 5 crosstabs

Crosstab showing dependent and independent variables

- Now we will go back to one question, like LESSREG
- We will see if women are more or less market liberal than men in the Czech Republic
- We must first add the Czech filter, so we only get answers for the Czech Republic
- Then we replace the variable for countries with the variable for gender

First the filter

The screenshot shows the SPSS Data Editor window for a file named 'issp2006steve.sav'. The 'Data' menu is open, and the 'Select Cases...' option is highlighted. The main window displays a list of variables and their properties. The 'filter_5' variable is highlighted in the list, indicating it is the current filter.

Variable	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
268 hu_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
269 ie_si	Nominal	2	0	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
270 il_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
271 ip_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
272 kr_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
273 lv_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
274 nl_si	Nominal	2	0	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
275 no_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
276 nz_si	Nominal	2	0	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
277 ph_si	Nominal	2	0	Size of commu	{0, Not availabl	0	9	Right	Nominal
278 pl_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
279 pt_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
280 ru_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
281 se_si	Nominal	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
282 si_size	Numeric	2	0	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
283 tw_size	Numeric	2	0	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
284 us_size	Numeric	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
285 uy_size	Numeric	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
286 ve_size	Numeric	2	0	Size of commu	{0, Not availabl	0	9	Right	Nominal
287 za_size	Numeric	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
288 urbrural	Numeric	1	0	Type of comm	{0, Not availabl	0, 9	10	Right	Nominal
289 ethnic	Numeric	4	1	Family origin	{0, Not availab	0, 99, 0	8	Right	Scale
290 mode	Numeric	2	0	Administrative	{10, F2f, pap a	0	6	Right	Nominal
291 weight	Numeric	11	8	Weighting fact	{1, 00000000, None		13	Right	Scale
292 LESSREG	Numeric	8	2		{1, 00, strongly	None	10	Right	Scale
293 Czech	Numeric	8	2		{None	None	10	Right	Scale
294 filter_5	Numeric	1	0	Czech = 1 (FIL	{0, Not Selecte	None	10	Right	Scale

Go back now to the crosstab

issp2006steve.sav [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Reports

- Descriptive Statistics
- Tables
- Compare Means
- General Linear Model
- Generalized Linear Models
- Mixed Models
- Correlate
- Regression
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- Multiple Response
- Missing Value Analysis...
- Complex Samples
- Quality Control
- ROC Curve...

- Frequencies...
- Descriptives...
- Explore...
- Crosstabs...
- Ratio...
- P-P Plots...
- Q-Q Plots...

	Name	Type	Values	Missing	Columns	Align	Measure	
268	hu_size	Numeric	NAP, other	0	9	Right	Nominal	
269	ie_size	Numeric	NAP, other	0, 99	9	Right	Nominal	
270	il_size	Numeric	NAP, other	0	9	Right	Nominal	
271	jp_size	Numeric	NAP, other	0	9	Right	Nominal	
272	kr_size	Numeric	NAP, other	0	9	Right	Nominal	
273	lv_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
274	nl_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
275	no_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
276	nz_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
277	ph_size	Numeric	Size of commu	{0, Not availabl	0	9	Right	Nominal
278	pl_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
279	pt_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
280	ru_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
281	se_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
282	sj_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
283	tw_size	Numeric	Size of commu	{0, NAP, other	0, 99	9	Right	Nominal
284	us_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
285	uy_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
286	ve_size	Numeric	Size of commu	{0, Not availabl	0	9	Right	Nominal
287	za_size	Numeric	Size of commu	{0, NAP, other	0	9	Right	Nominal
288	urbrural	Numeric	Type of comm	{0, Not availabl	0, 9	10	Right	Nominal
289	ethnic	Numeric	Family origin,	{0, Not availab	0, 99, 0	8	Right	Scale
290	mode	Numeric	Administrative	{10, F2f, pap a	0	6	Right	Nominal
291	weight	Numeric	Weighting fact	{1.00000000,	None	13	Right	Scale
292	LESSREG	Numeric		{1.00, strongly	None	10	Right	Scale
293	Czech	Numeric		None	None	10	Right	Scale
294	filter_\$	Numeric	Czech = 1 (FIL	{0, Not Selecte	None	10	Right	Scale
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Replace "country" with "sex" and click OK

issp2006steve.sav [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

268 hu
269 ie
270 il_s
271 jp
272 kr
273 lv
274 nl
275 no
276 nz
277 ph
278 pl
279 pt
280 ru
281 se
282 si
283 tw
284 us
285 uy
286 ve
287 za_size
288 urbrural
289 ethnic
290 mode
291 weight
292 LESSREG
293 Czech
294 filter_\$

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Crosstabs

Row(s):
LESSREG

Column(s):

Layer 1 of 1
Previous Next

Display clustered bar charts
 Suppress tables

Exact... Statistics... Cells... Format...

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
other					0		9	Right	Nominal
other					0, 99		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0, 99		9	Right	Nominal
other					0		9	Right	Nominal
other					0, 99		9	Right	Nominal
availabl					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
other					0, 99		9	Right	Nominal
other					0, 99		9	Right	Nominal
other					0		9	Right	Nominal
other					0		9	Right	Nominal
availabl					0		9	Right	Nominal
Size of commu	Numeric	2	0	Size of commu	{0, NAP, other	0	9	Right	Nominal
Type of comm	Numeric	1	0	Type of comm	{0, Not availabl	0, 9	10	Right	Nominal
Family origin,	Numeric	4	1	Family origin,	{0, Not availab	.0, 99.0	8	Right	Scale
Administrative	Numeric	2	0	Administrative	{10, F2f,pap a	0	6	Right	Nominal
Weighting fact	Numeric	11	8	Weighting fact	{1.00000000,	None	13	Right	Scale
	Numeric	8	2		{1.00, strongly	None	10	Right	Scale
	Numeric	8	2		None	None	10	Right	Scale
Czech = 1 (FIL	Numeric	1	0	Czech = 1 (FIL	{0, Not Selecte	None	10	Right	Scale

This is what the result looks like

Output2 [Document2] - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Add-ons Window Help

/CELLS= COUNT ROW COLUMN TOTAL

→ **Crosstabs**

[DataSet1] D:\data bases\ISSP 2006\issp2006steve.sav

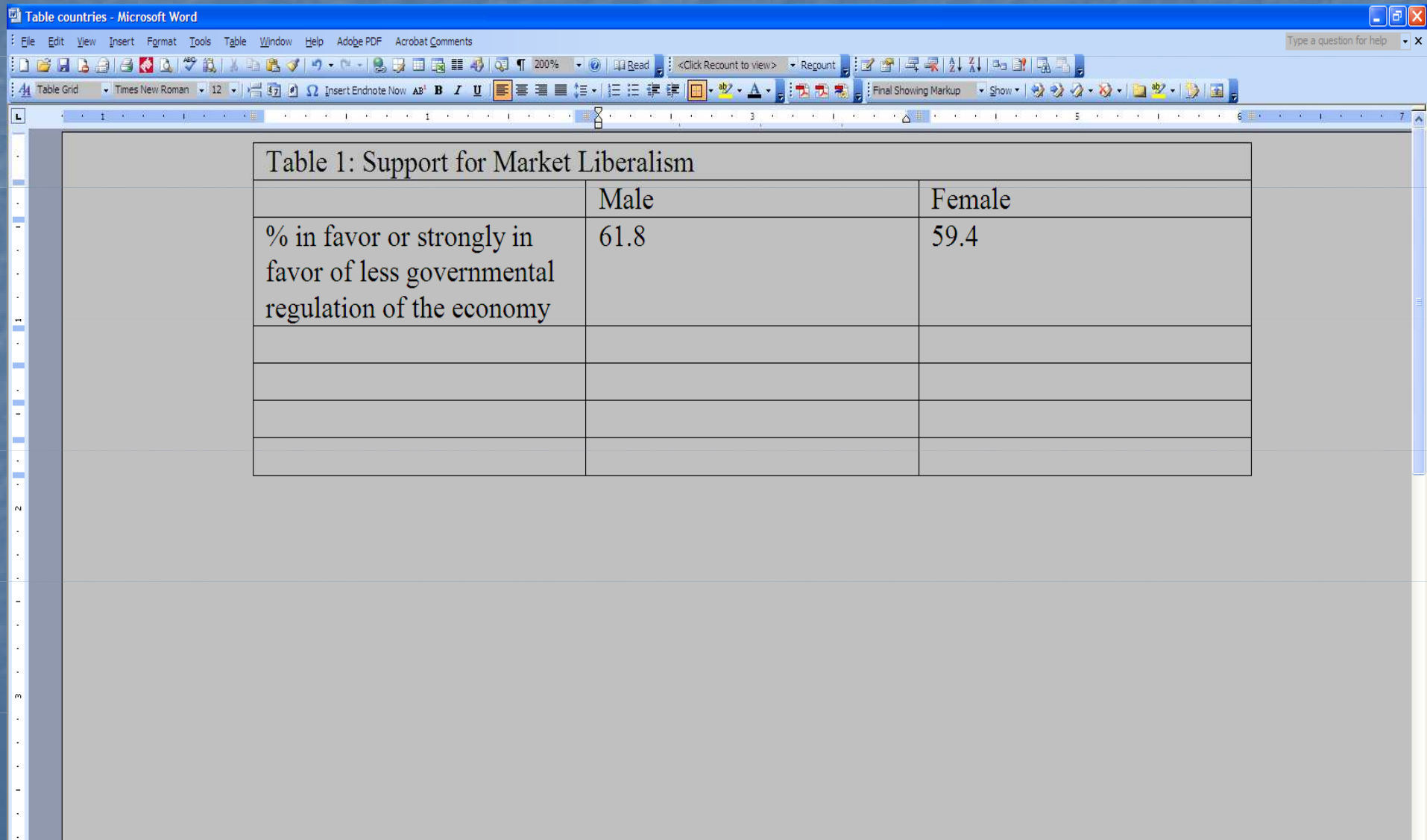
Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
LESSREG * R: Sex	1135	94.5%	66	5.5%	1201	100.0%

LESSREG * R: Sex Crosstabulation

			R: Sex		Total
			Male	Female	
LESSREG	strongly against	Count	14	14	28
		% within LESSREG	50.0%	50.0%	100.0%
		% within R: Sex	2.9%	2.1%	2.5%
		% of Total	1.2%	1.2%	2.5%
against	Count	44	70	114	
	% within LESSREG	38.6%	61.4%	100.0%	
	% within R: Sex	9.1%	10.7%	10.0%	
	% of Total	3.9%	6.2%	10.0%	
neither nor	Count	126	181	307	
	% within LESSREG	41.0%	59.0%	100.0%	
	% within R: Sex	26.1%	27.7%	27.0%	
	% of Total	11.1%	15.9%	27.0%	
in favor of	Count	174	265	439	
	% within LESSREG	39.6%	60.4%	100.0%	
	% within R: Sex	36.1%	40.6%	38.7%	
	% of Total	15.3%	23.3%	38.7%	
strongly in favor of	Count	124	123	247	
	% within LESSREG	50.2%	49.8%	100.0%	
	% within R: Sex	25.7%	18.8%	21.8%	
	% of Total	10.9%	10.8%	21.8%	
Total	Count	482	653	1135	
	% within LESSREG	42.5%	57.5%	100.0%	
	% within R: Sex	100.0%	100.0%	100.0%	
	% of Total	42.5%	57.5%	100.0%	

Make your own table for the questions measuring your topic. We see men are more market liberal than women, but the difference is small. That question is whether the difference is big enough to be more than a random difference.



The screenshot shows a Microsoft Word document titled "Table countries - Microsoft Word". The document contains a table with the following data:

Table 1: Support for Market Liberalism		
	Male	Female
% in favor or strongly in favor of less governmental regulation of the economy	61.8	59.4

Choose the dependent variable and choose "sex" as the independent variable

The screenshot shows the SPSS Data Editor window with the 'Linear Regression' dialog box open. The dialog box is configured with 'LESSREG' as the dependent variable and 'R: Sex [sex]' as the independent variable. The 'Method' is set to 'Enter'. The background shows a data view with columns for 'Missing', 'Columns', 'Align', and 'Measure'.

Linear Regression Dialog Box Configuration:

- Dependent: LESSREG
- Independent(s): R: Sex [sex]
- Method: Enter
- Selection Variable: (empty)
- Case Labels: (empty)
- WLS Weight: (empty)

Data View Columns:

Variable	Missing	Columns	Align	Measure
Q11d: Most people		9	Right	Nominal
Q11e: MPs try to		9	Right	Nominal
Q11f: Trust in civil		9	Right	Nominal
Q12a: Taxes for hi		9	Right	Nominal
Q12b: Taxes for m		9	Right	Nominal
Q12c: Taxes for lo		9	Right	Nominal
Q13a: Only few pe		9	Right	Nominal
Q13b: People will t		9	Right	Nominal
Q14a: How often e		9	Right	Nominal
Q14b: People you		9	Right	Nominal
Q15: Public official		9	Right	Nominal
Q16: Treatment by		9	Right	Nominal
Q17: Politicians inv		9	Right	Nominal
Q18: Public official		9	Right	Nominal
Q19: Public official		9	Right	Nominal
Q20: How many pe		9	Right	Nominal
R: Sex [sex]		9	Right	Nominal
R: Age [age]		9	Right	Nominal
R: Marital status [m		9	Right	Nominal
287 za_size		9	Right	Nominal
288 urbrrural		9	Right	Nominal
289 ethnic		8	Right	Scale
290 mode		6	Right	Nominal
291 weight		13	Right	Scale
292 LESSREG		10	Right	Scale
293 Czech		10	Right	Scale
294 filter_\$		10	Right	Scale

The Model summary:
R-square is very low. The model only explains
0.2% of the total variance in LESSREG

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.046 ^a	.002	.001	1.00205

a. Predictors: (Constant), R: Sex

Df total shows that there were 1134 cases, which shows you that your country filter is working, otherwise it would have been around 44,000. Sig. = .120 means the model is only significant at the 12% level which is much higher than the 5% level that is normally acceptable

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2.433	1	2.433	2.423	.120 ^a
	Residual	1137.642	1133	1.004		
	Total	1140.076	1134			

a. Predictors: (Constant), R: Sex

b. Dependent Variable: LESSREG

Here we see there is a negative correlation between being a woman and supporting less regulation ($B = -.094$), but the correlation is very small and is only $-.046$ on a scale [of 0-1] (the standardized coefficient). Furthermore, $t < |1.96|$ and is only significant at the 12% level. The t-significance for this variable (SEX) and the significance for the entire model is the same, since we only have one independent variable.

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	3.820	.099		38.448	.000
	R: Sex	-.094	.060	-.046	-1.557	.120

a. Dependent Variable: LESSREG

Your Next Step at This Lab

- Now choose the questions that you have for measuring the attitude you chose.
- They should be at least 5 questions.
- Choose any independent variable, such as SEX, or INCOME, EDUCATION or AGE
- Run bivariate regressions on each of the questions using the same independent variable and think about why some might have been significant or not.
- Today choose only one independent variable, so you can see whether this variable is significant for some questions but not for others.
- When discussing multivariate regressions we will compare the importance of different independent variables and start to contemplate whether, for example gender can explain attitudes better or worse than income, age or education.