

Seminar Structure

Task 1

Task 2

Researching Crime and Criminal Justice Seminar 4: Data Manipulation in SPSS

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Seminar Aims

Seminar Aims

Seminar Structure

Task 1

- To learn useful data manipulation techniques:
 - Select cases
 - Recode variables
- To carry on analysing your survey data
- To answer any SPSS or Assignment 1 related questions



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Task 1

- Selecting/Filtering Cases
- 2 Recoding a variable
- 3 Work with your own data

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Getting Started

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Task 1

- Seat next to your group members and get a computer for every two students (three max)
- 2 Log on and open SPSS
 - $-\,$ All Programs \rightarrow IBM SPSS Statistics \rightarrow IBM SPSS Statistics 25 $\,$
 - Close the menus that pop up so you just get an empty spreadsheet
- 3 Open the CSEW from SPSS (if you did not save it you can download it from Minerva)
 - File \rightarrow Open \rightarrow Data



Seminar Structure

Task 1

Task 2

Task 1: Selecting/Filtering Cases

- Sometimes you just want to analyse a specific subsample of your full sample
 - $-\,$ e.g. you might be interested in subjects who are older than 30 $\,$
 - or those who have been victims of a crime
- We can do this using the 'Select Cases' option in SPSS
- Let's look at responses to *How safe do you feel walking alone after dark?* but only amongst those who answered *yes* to *Experience of any crime in the last 12 months*
- We need to tell SPSS to keep only cases that satisfy the following condition, *bcsvictim* = 1 (see *Values* within *Variable View*)



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Task 1

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10		127011200.0		B How wo	. 🕹 I	low worried	a				=	Date Arithm	etic	- 00	2.00
10		126610210.0		B How wo	. 🐥 I	low worried	a		•	0	· · · · · · · · · · · · · · · · · · ·	Date Creatic	21		4.00
17		136602010.0		B How wo	8 - F	low worried	a	**	~ ()	Delete	*	Eunctions an	id Special Va	riables:	5.00
18		136659080.0		B How wo	۰ 🗞 ا	low worried	a							00	2.00
19		136613110.0		Worry a	• • •	low worried	a							00	1.00
20		136842090.0		Experier		Vorry about	b							00	1.00
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24		147591040.0		Anti-soc		iow commo	n							00	4.00
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31		137087210.0)	1.00	2.00	7.00	1.00	2.0	0 4.0	0 1.0	0 6.0	1.00	4.00	2.00	
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Seminar Aims

Seminar Structure

Task 1

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Seminar Structure

Task 1

Task 2

Task 1: Selecting/Filtering Cases

- Notice how respondents who reported not having been a victim are deactivated (with a diagonal cross in the first column of the *Data View* display)
- Any analyses you do under the current settings will only include those who meet the selection criteria (bcsvictim = 1)
- You can go back to your original full sample by clicking:
 - Data \rightarrow Select Cases \rightarrow All Cases
- Calculate a frequency table for *How safe do you feel walking alone after dark?* (walkdark) with and without the filter
 - Analyze \rightarrow Descriptive Statistics \rightarrow Frequencies

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Task 2: Recoding Variables

Seminar Aims

Seminar Structure

Task 1

- Sometimes you might want to transform one of your variables
- For example, you might want to compare two age groups but the variable capturing interviewees' age is divided in seven bands
- There are ways to carry out such transformations automatically
- Hence, eliminating the tediousness and coding errors associated with imputing variables manually (e.g. case by case)



Seminar Aims

Seminar Structure

Task 1

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1	13	1474382	30.0	🛃 Ran <u>k</u> C	ases			2.00	4.00	1.00	7.00	1.00	1.00	2.00	2.00
	14	1363180	0.08	🗎 Date an	nd Time Wiza	ard		1.00	1.00	1.00	4.00	3.00	2.00	1.00	1.00
1	15	1370113	0.00	Create	Time Series			2.00	1.00	3.00	4.00	1.00	3.00	1.00	3.00
1	16	1366103	10.0	orcuic	n <u>in</u> e oenes.			2.00	1.00	6.00	7.00	1.00	1.00	1.00	4.00
1	17	1366020	10.0	Replace	e Missing ⊻al	ues		1.00	4.00	4.00	4.00	1.00	4.00	1.00	5.00
1	18	1366590	80.0	Randor	n Number <u>G</u> e	enerators		2.00	1.00	6.00	6.00	1.00	3.00	1.00	2.00
	19	1366131	10.0	Run Pe	nding Transf			2.00	1.00	3.00	5.00	1.00	3.00	1.00	1.00
- 1	20	1368420	90.0					1.00	2.00	1.00	3.00	1.00	4.00	1.00	1.00
- 2	21	1474390	70.0	3.00	2.00	7.00		2.00	1.00	4.00	6.00	1.00	2.00	1.00	2.00
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	23	1360441	90.0	3.00	2.00	6.00		1.00	2.00	1.00	3.00	1.00	3.00	1.00	2.00
	24	1475910	40.0	4.00	2.00	6.00		1.00	2.00	1.00	4.00	1.00	4.00	1.00	4.00
	25	1369410	90.0	1.00	2.00	4.00		1.00	2.00	1.00	3.00	1.00	4.00	2.00	5.00
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	60	1369941	50.0	3.00	1.00	6.00		1.00	4.00	3.00	2.00	1.00	4.00	1.00	1.00
	3	1360880	00.0	4.00	2.00	1.00	2.00	1.00	4.00	5.00	5.00	1.00	5.00	1.00	2.00
	24	19/2/21	90.0	3.00	1.00	7.00	1.00	2.00	5.00	2.00	6.00	1.00	1.00	2.00	4.00
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Seminar Aims

Seminar Structure

Task 1

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	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measur
1	rowlabel	Numeric	10	2	Case identifier (9 digits)	None	None	8	Right	/ Scale
2	split	Numeric	10	2	Follow-up module split	{1.00, A (Ex	None	8	Right	Nominal
3	sex	Numeric	10	2	Adult number 1 (respondent): Sex	{1.00, Male}	None	8	Right Right	Nominal
	yrsarea	Numeric	10	2	How long lived in this area	{1.00, Less	8.00, 9.00	8	Right	💑 Nominal
	resyrago	Numeric	10	2	Living at this address 12 months ago or not?	{1.00, Yes}	None	8	Right Right	Nominal
5	work2	Numeric	10	2	Any paid work in last week	{1.00, Yes}	8.00, 9.00	8	Right	Nominal
	tenure1	Numeric	10	2	In which way do you occupy this accommodation?	{1.00, Own i	8.00, 9.00	8	Right Right	💰 Nominal
3	livharm1	Numeric	10	2	ONS harmonised marital status	{-1.00, Not	-1.00	8	Right	💑 Nominal
-	agegrp7	Numeric	10	2	Age group (7 bands)	{1.00, 16-24	None	8	Right	💑 Nominal
	Recode into	o Different Va	riables	2	Ethnic Group (5 categories)	[1.00, White	36 00, 99 00		45	💑 Nominal
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1	A Follow-u	p module spi	t (spiit)			Older35				💑 Nominal
5	Adult hur	mber 1 (respo	ondent			Label:				Scale
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·	Living at	this address	12 m	-		Age recoue	u as 55 or on			💰 Nominal
3	Any paid	work in last v	veek [Change		10	🚴 Nominal
9	at In which	way do you o	iccup					·	1	\delta Nominal
0	S ONS har	monised ma	ntal st						1	🚴 Nominal
1	Ethnic G	roup (5 categ	ories)						1	\delta Nominal
2	Respond	dent education	n (5 c	L						💰 Nominal
3	K Type of a	area 2004: ur	ban/ru	0	Id and New Values				1	💰 Nominal
1	England:	Index of mul	tiple d							💑 Nominal
5	💑 Wales: Ir	ndex of multip	ole de 💂	ų	(optional case selection condition)					💰 Nominal
5										💰 Nominal
7					OK Paste Reset Cancel Help					🖋 Scale
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9	rubbcomm	Numeric	10	2	How common is litter or rubbish in immediate area?	{1.00, Very	None	8	I Right	💰 Nominal
)	vandcomm	Numeric	10	2	How common is vandalism or graffiti in immediate a.	{1.00, Very	None	8	🗃 Right	🚓 Nominal
1	poorhou	Numeric	10	2	How common are homes in poor condition/run down	? {1.00, Very	None	8	Right	🚴 Nominal
2	antisocx	Numeric	9	2	Anti-social behaviour in their neighbourhood (high s	None	None	8	I Right	🔗 Scale
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Seminar Structure

Task 1

Task 2

- Once in the *Recode into Different Variables* menu:
- $\hfill \label{eq:click}$ Click twice on the variable to be recoded (agegrp7) to get it into the main box

Task 2: Recoding Variables

- 2 On *Output Variable* write down a name and a label for the new variable
- 3 Click Change and then click Old and New Values
- We indicate SPSS to code values equal or bigger than 3 (those older than 35) as a 1
- 5 And everything else as a 0
- 6 Click Add and Continue
- \overline{v} Lastly, check that the new recoded variable has been created correctly



Seminar Aims

Seminar Structure

Task 1

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3	1	37116250	.0	1.00	2.0	0 7.0	0 2.00	2.	.00	4.00	6.00	5.00	1.00	4.00	1.00	1.00
4	1	47354190	.0	3.00	2.0	0 7.0	0	. 1.	.00	2.00	1.00	5.00	1.00	2.00	1.00	1.00
5	1	37061230	.0	3.00	2.0	0 7.0	0	. 2.	.00	4.00	6.00	6.00	1.00	1.00	2.00	3.00
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9						O Value:					Value	1				4.00
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12	12 ♣ Follow-up module split [split © System-missing © Copy old value(s)											2.00				
14		🗞 Adult	numb	er 1 (respo	ondent	O System-	vr <u>u</u> ser-missir	ng				Old> Net	N			1.00
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20		💑 Ethnic	: Grou	up (5 categ	ories)	O Range, L	JWEST throu	ign value:								1.00
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28	1	36994150	.0	3.00	1.0	0 6.0	0	1	.00	4.00	3.00	2.00	1.00	4.00	1.00	1.00
29	1	36088080	.0	4.00	2.0	0 1.0	0 2.00	1.	.00	4.00	5.00	5.00	1.00	5.00	1.00	2.00
30	1	47272190	.0	3.00	1.0	0 7.0	0	2	.00	5.00	2.00	6.00	1.00	1.00	2.00	4.00
31	1	37087210	.0	1.00	2.0	0 7.0	0 1.00	2	.00	4.00	1.00	6.00	1.00	4.00	2.00	. 🔻
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Seminar Aims

Seminar Structure

Task 1

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	rowlat	iel	split	sex	yrsarea	resyrago	work2	tenure1	livharm1	agegrp7	ethgrp2a	educat3	rural2	edeprive:
1	1370680	50.0	1.00	2.00	7.00		1.00	2.00	3.00	4.00	1.00	4.00	1.00	2
2	1474611	90.0	3.00	2.00	6.00		2.00	1.00	1.00	5.00	1.00	4.00	2.00	4
3	1371162	50.0	1.00	2.00	7.00	2.00	2.00	4.00	6.00	5.00	1.00	4.00	1.00	1
4	1473541	90.0	3.00	2.00	7.00		1.00	2.00	1.00	5.00	1.00	2.00	1.00	1
5	1370612	30.0	3.00	2.00	7.00		2.00	4.00	6.00	6.00	1.00	1.00	2.00	3
6	1368982	30.0	3.00	tan-	7.00		2 00	1.00	1.00	6.00	1.00	2.00	1.00	x l ²
7	1355073	30.0	1.00	Ca Ne	code into p	inerent varia	ibles. Old and	a ivew values	1.00	4.00	1.00	1.00	1.00	
s 5.00 Source New Value														
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12	💰 Fol	low-up	module split [s	plit	System-mi	ssing			Copy	old value(s)				
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14	💰 Hơ	w long l	ived in this are	a[. O	Range:					2 thru blief	nort > 1			
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Seminar Aims

Seminar Structure

Task 1

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Task 2: Recoding Variables

Seminar Aims

Seminar Structure

Task 1

- Here we have turned a continuous variable into a categorical variable
- You can now use the new recoded variable to carry out types of analyses suitable to categorical variables:
 - univariate analyses such as frequency tables
 - bivariate analyses such as crosstabs or comparison of means
 - graphs like barplots, etc.



Seminar Structure

Task 1

Task 2

Recap

- Over the course of the last three seminars we have seen how to:
 - create a dataset
 - manipulate cases and variables
 - calculate univariate and bivariate statistics
 - design graphs
- You are now well equipped to carry out Assignment 1
- Using the data you have collected and your knowledge of SPSS you will be able to answer the given research question