



Seminar Aims

Seminar  
Structure

Task 1

Task 2

# Researching Crime and Criminal Justice

## Seminar 4: Data Manipulation in SPSS

Jose Pina-Sánchez



# Seminar Aims

## Seminar Aims

Seminar  
Structure

Task 1

Task 2

- 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



Seminar Aims

**Seminar  
Structure**

Task 1

Task 2

# Seminar Structure

- ① Selecting/Filtering Cases
- ② Recoding a variable
- ③ Work with your own data

# Getting Started

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Task 1

Task 2

- 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 → IBM SPSS Statistics → 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 → Open → Data



## Task 1: Selecting/Filtering Cases

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Task 1

Task 2

- 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*)

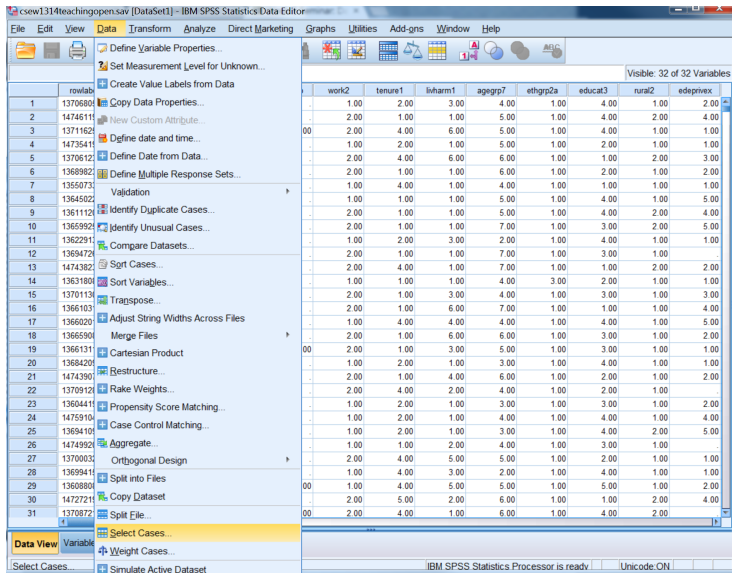
# Task 1: Selecting/Filtering Cases

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The screenshot shows the IBM SPSS Statistics Data Editor interface. The menu bar includes File, Edit, View, Data, Transform, Analyze, Direct Marketing, Graphs, Utilities, Add-ons, Window, and Help. The Data menu is open, displaying various options such as 'Define Variable Properties...', 'Set Measurement Level for Unknown...', 'Create Value Labels from Data', 'Copy Data Properties...', 'New Custom Attribute...', 'Define date and time...', 'Define Date from Data...', 'Define Multiple Response Sets...', 'Validation', 'Identify Duplicate Cases...', 'Identify Unusual Cases...', 'Compare Datasets...', 'Sort Cases...', 'Sort Variables...', 'Transpose...', 'Adjust String Widths Across Files', 'Merge Files', 'Cartesian Product', 'Restructure...', 'Rake Weights...', 'Propensity Score Matching...', 'Case Control Matching...', 'Aggregate...', 'Orthogonal Design', 'Split into Files', 'Copy Dataset', 'Split File...', 'Select Cases...', 'Weight Cases...', and 'Simulate Active Dataset'. The 'Data View' tab is selected, showing a table with 32 variables and 31 rows of data. The variables are work2, tenure1, lnham1, agegrp7, ethgrp2a, educat3, rural2, and edeprievx. The data values are binary (0 or 1).

| rowlab | work2 | tenure1 | lnham1 | agegrp7 | ethgrp2a | educat3 | rural2 | edeprievx |
|--------|-------|---------|--------|---------|----------|---------|--------|-----------|
| 1      | 1.00  | 2.00    | 3.00   | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 2      | 2.00  | 1.00    | 1.00   | 5.00    | 1.00     | 4.00    | 2.00   | 4.00      |
| 3      | 2.00  | 4.00    | 6.00   | 5.00    | 1.00     | 4.00    | 1.00   | 1.00      |
| 4      | 1.00  | 2.00    | 1.00   | 5.00    | 1.00     | 2.00    | 1.00   | 1.00      |
| 5      | 2.00  | 4.00    | 6.00   | 6.00    | 1.00     | 1.00    | 2.00   | 3.00      |
| 6      | 2.00  | 1.00    | 1.00   | 6.00    | 1.00     | 2.00    | 1.00   | 2.00      |
| 7      | 1.00  | 4.00    | 1.00   | 4.00    | 1.00     | 1.00    | 1.00   | 1.00      |
| 8      | 1.00  | 1.00    | 1.00   | 5.00    | 1.00     | 4.00    | 1.00   | 5.00      |
| 9      | 2.00  | 1.00    | 1.00   | 5.00    | 1.00     | 4.00    | 2.00   | 4.00      |
| 10     | 2.00  | 1.00    | 1.00   | 7.00    | 1.00     | 3.00    | 2.00   | 5.00      |
| 11     | 1.00  | 2.00    | 3.00   | 2.00    | 1.00     | 4.00    | 1.00   | 1.00      |
| 12     | 2.00  | 1.00    | 1.00   | 7.00    | 1.00     | 3.00    | 1.00   | .         |
| 13     | 2.00  | 4.00    | 1.00   | 7.00    | 1.00     | 1.00    | 2.00   | 2.00      |
| 14     | 1.00  | 1.00    | 1.00   | 4.00    | 3.00     | 2.00    | 1.00   | 1.00      |
| 15     | 2.00  | 1.00    | 3.00   | 4.00    | 1.00     | 3.00    | 1.00   | 3.00      |
| 16     | 2.00  | 1.00    | 6.00   | 7.00    | 1.00     | 1.00    | 1.00   | 4.00      |
| 17     | 1.00  | 4.00    | 4.00   | 4.00    | 1.00     | 4.00    | 1.00   | 5.00      |
| 18     | 2.00  | 1.00    | 6.00   | 6.00    | 1.00     | 3.00    | 1.00   | 2.00      |
| 19     | 2.00  | 1.00    | 3.00   | 5.00    | 1.00     | 3.00    | 1.00   | 1.00      |
| 20     | 1.00  | 2.00    | 1.00   | 3.00    | 1.00     | 4.00    | 1.00   | 1.00      |
| 21     | 2.00  | 1.00    | 4.00   | 6.00    | 1.00     | 2.00    | 1.00   | 2.00      |
| 22     | 2.00  | 4.00    | 2.00   | 4.00    | 1.00     | 2.00    | 1.00   | .         |
| 23     | 1.00  | 2.00    | 1.00   | 3.00    | 1.00     | 3.00    | 1.00   | 2.00      |
| 24     | 1.00  | 2.00    | 1.00   | 4.00    | 1.00     | 4.00    | 1.00   | 4.00      |
| 25     | 1.00  | 2.00    | 1.00   | 3.00    | 1.00     | 4.00    | 2.00   | 5.00      |
| 26     | 1.00  | 1.00    | 2.00   | 4.00    | 1.00     | 3.00    | 1.00   | .         |
| 27     | 2.00  | 4.00    | 5.00   | 5.00    | 1.00     | 2.00    | 1.00   | 1.00      |
| 28     | 1.00  | 4.00    | 3.00   | 2.00    | 1.00     | 4.00    | 1.00   | 1.00      |
| 29     | 1.00  | 4.00    | 5.00   | 5.00    | 1.00     | 5.00    | 1.00   | 2.00      |
| 30     | 2.00  | 5.00    | 2.00   | 6.00    | 1.00     | 1.00    | 2.00   | 4.00      |
| 31     | 2.00  | 4.00    | 1.00   | 6.00    | 1.00     | 4.00    | 2.00   | .         |

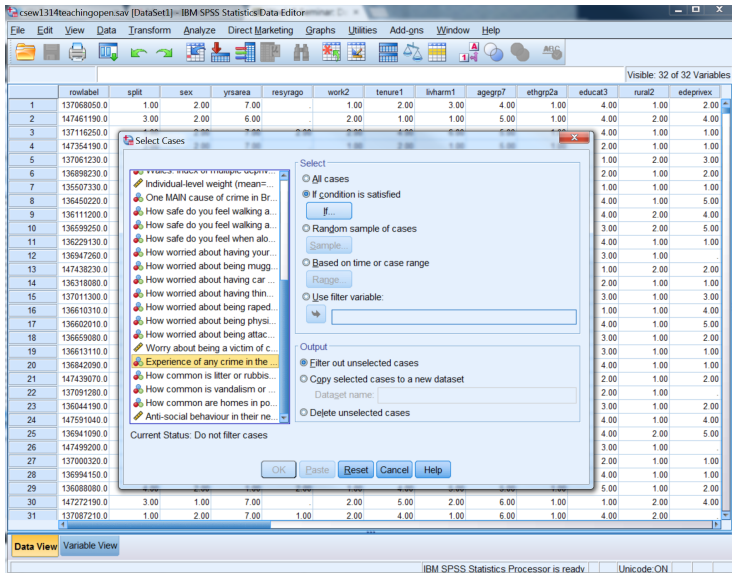
# Task 1: Selecting/Filtering Cases

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The screenshot shows the IBM SPSS Statistics Data Editor window with a data table and a 'Select Cases' dialog box open. The data table has columns: rowlabel, split, sex, yrsarea, resyrage, work2, tenure1, inharm1, agegrp7, ethgrp2a, educat3, rural2, and edeprievx. The 'Select Cases' dialog box has the following options:

- All cases
- If condition is satisfied
  - If...
- Random sample of cases
  - Sample...
- Based on time or case range
  - Range...
- Use filter variable:
  - [ ]

Output options:

- Filter out unselected cases
- Copy selected cases to a new dataset
  - Dataset name: [ ]
- Delete unselected cases

Current Status: Do not filter cases

Buttons: OK, Paste, Reset, Cancel, Help

Visible: 32 of 32 Variables

IBM SPSS Statistics Processor is ready Unicode: ON

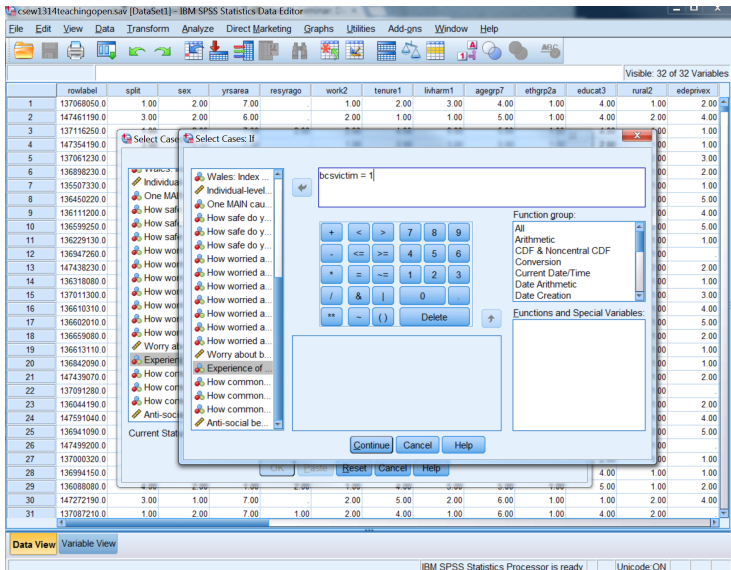
# Task 1: Selecting/Filtering Cases

Seminar Aims

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The screenshot shows the IBM SPSS Statistics Data Editor interface. The main window displays a data table with 32 variables and 32 cases. A dialog box titled "Select Cases: If" is open, allowing the user to filter cases based on a logical expression. The expression entered is "bcsvictim = 1".

The data table has the following columns: rowlabel, split, sex, yrsarea, resyrago, work2, tenure1, inharm1, agegrp7, ethgrp2a, educat3, rural2, and edeprievx. The first few rows of data are as follows:

| rowlabel | split       | sex  | yrsarea | resyrago | work2 | tenure1 | inharm1 | agegrp7 | ethgrp2a | educat3 | rural2 | edeprievx |
|----------|-------------|------|---------|----------|-------|---------|---------|---------|----------|---------|--------|-----------|
| 1        | 137068050.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 2        | 147461190.0 | 3.00 | 2.00    | 6.00     | 2.00  | 1.00    | 1.00    | 5.00    | 1.00     | 4.00    | 2.00   | 4.00      |
| 3        | 137116250.0 | 4.00 | 2.00    | 6.00     | 2.00  | 1.00    | 1.00    | 5.00    | 1.00     | 4.00    | 2.00   | 4.00      |
| 4        | 147354190.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 5        | 137061230.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 6        | 136898230.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 7        | 135507330.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 8        | 136450220.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 9        | 136111200.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 10       | 136599250.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 11       | 136229130.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 12       | 136947260.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 13       | 147438230.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 14       | 136318080.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 15       | 137011300.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 16       | 136610310.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 17       | 136602010.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 18       | 136659080.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 19       | 136613110.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 20       | 136842090.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 21       | 147439070.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 22       | 137091280.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 23       | 136044190.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 24       | 147591040.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 25       | 136941090.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 26       | 147499200.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 27       | 137000320.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 28       | 136994150.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 29       | 136088080.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00      |
| 30       | 147272190.0 | 3.00 | 1.00    | 7.00     | 2.00  | 5.00    | 2.00    | 6.00    | 1.00     | 1.00    | 2.00   | 4.00      |
| 31       | 137087210.0 | 1.00 | 2.00    | 7.00     | 1.00  | 2.00    | 4.00    | 1.00    | 6.00     | 1.00    | 4.00   | 2.00      |

The "Select Cases: If" dialog box contains the following elements:

- Variable list on the left: Individual-level..., One MAIN cau..., How safe do y..., How safe do y..., How worried a..., How worried a..., How worried a..., How worried a..., How worried a..., How worried a..., Worry about b..., Experience of..., How com..., How com..., How com..., Anti-social be...
- Expression field: `bcsvictim = 1`
- Function group: All, Arithmetic, CDF & Noncentral CDF, Conversion, Current Date/Time, Date Arithmetic, Date Creation
- Buttons: Continue, Cancel, Help



# Task 1: Selecting/Filtering Cases

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Task 1

Task 2

\*csew1314teachingopen.sav [DataSet1] - IBM SPSS Statistics Data Editor

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

1: bcsvictim 0 Visible: 33 of 33 Variables

|    | aged | wcarstol | wfromcar | wrapped | wattack | wraceatt | worryx | bcsvictim | rubcomm | vandcomm | poorhou | antisocx | filter_\$ |
|----|------|----------|----------|---------|---------|----------|--------|-----------|---------|----------|---------|----------|-----------|
| 1  |      |          |          |         |         |          |        | .00       | 3.00    | 3.00     | 3.00    | -2.07    | 0         |
| 2  | 4.00 |          |          | 4.00    | 4.00    | 4.00     | 1.13   | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 3  |      |          |          |         |         |          |        | .00       | 3.00    | 4.00     | 3.00    | .24      | 0         |
| 4  | 3.00 |          |          | 4.00    | 3.00    | 4.00     | .26    | 1.00      | 4.00    | 4.00     | 4.00    |          | 1         |
| 5  | 2.00 |          |          | 2.00    | 2.00    | 3.00     | -1.18  | .00       | 3.00    | 3.00     | 3.00    |          | 0         |
| 6  | 4.00 |          |          | 4.00    | 3.00    | 4.00     | .82    | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 7  |      |          |          |         |         |          |        | .00       | 3.00    | 3.00     | 3.00    | 1.22     | 0         |
| 8  |      | 3.00     | 3.00     |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 9  |      |          |          |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 10 |      |          |          |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 11 |      |          |          |         |         |          |        | .00       | 3.00    | 3.00     | 3.00    | -.94     | 0         |
| 12 |      | 4.00     | 3.00     |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 13 | 3.00 |          |          | 3.00    | 3.00    | 4.00     | .25    | .00       | 3.00    | 3.00     | 3.00    |          | 0         |
| 14 |      |          |          |         |         |          |        | .00       | 2.00    | 4.00     | 1.00    |          | 0         |
| 15 |      |          |          |         |         |          |        | .00       | 3.00    | 4.00     | 4.00    |          | 0         |
| 16 | 2.00 |          |          | 4.00    | 3.00    | 4.00     | .21    | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 17 |      |          |          |         |         |          |        | .00       | 3.00    | 3.00     | 3.00    | -.94     | 0         |
| 18 |      |          |          |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 19 | 3.00 |          |          | 4.00    | 3.00    | 4.00     | .77    | .00       | 3.00    | 4.00     | 3.00    |          | 0         |
| 20 |      |          |          |         |         |          |        | .00       | 3.00    | 3.00     | 3.00    | -2.42    | 0         |
| 21 | 4.00 |          |          | 4.00    | 4.00    | 4.00     | 1.39   | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 22 |      |          |          |         |         |          |        | .00       | 2.00    | 3.00     | 3.00    |          | 0         |
| 23 | 4.00 |          |          | 4.00    | 3.00    | 4.00     | .82    | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 24 |      |          |          |         |         |          |        | 1.00      | 3.00    | 4.00     | 3.00    |          | 1         |
| 25 |      |          |          |         |         |          |        | 1.00      | 4.00    | 4.00     | 4.00    | .25      | 1         |
| 26 |      |          |          |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 27 |      |          |          |         |         |          |        | .00       | 2.00    | 2.00     | 3.00    |          | 0         |
| 28 | 2.00 |          |          | 4.00    | 3.00    | 4.00     | .21    | .00       | 3.00    | 3.00     | 3.00    |          | 0         |
| 29 |      |          |          |         |         |          |        | 1.00      | 3.00    | 4.00     | 4.00    |          | 1         |
| 30 | 3.00 |          |          | 4.00    | 3.00    | 4.00     | .51    | .00       | 4.00    | 4.00     | 4.00    |          | 0         |
| 31 |      |          |          |         |         |          |        | .00       | 4.00    | 4.00     | 4.00    | 1.22     | 0         |

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode:ON Filter:On



## Task 1: Selecting/Filtering Cases

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- 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 → Select Cases → All Cases
- Calculate a frequency table for *How safe do you feel walking alone after dark?* (*walkdark*) with and without the filter
  - Analyze → Descriptive Statistics → Frequencies



## Task 2: Recoding Variables

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- 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)



## Task 2: Recoding Variables

Seminar Aims

Seminar Structure

Task 1

Task 2

\*csew1314teachingopen.sav [DataSet1] - IBM SPSS Statistics Data Editor

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

|    | Name                            | Type    | Width | Decimals | Label   | Values          | Missing    | Columns | Align | Measure |
|----|---------------------------------|---------|-------|----------|---|-----------------|------------|---------|-------|---------|
| 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 | Nominal |
| 4  | ysarsae                         | Numeric | 10    | 2        | How long lived in this area                             | {1.00, Less ... | 8.00, 9.00 | 8       | Right | Nominal |
| 5  | resyrago                        | Numeric | 10    | 2        | Living at this address 12 months ago or not?            | {1.00, Yes}...  | None       | 8       | Right | Nominal |
| 6  | work2                           | Numeric | 10    | 2        | Any paid work in last week                              | {1.00, Yes}...  | 8.00, 9.00 | 8       | Right | Nominal |
| 7  | tenure1                         | Numeric | 10    | 2        | In which way do you occupy this accommodation?          | {1.00, Own i... | 8.00, 9.00 | 8       | Right | Nominal |
| 8  | ltharm1                         | Numeric | 10    | 2        | ONS harmonised marital status                           | {-1.00, Not ... | -1.00      | 8       | Right | Nominal |
| 9  | agegrp7                         | Numeric | 10    | 2        | Age group (7 bands)                                     | {1.00, 16-24... | None       | 8       | Right | Nominal |
| 10 | Recode into Different Variables |         |       |          | Ethnic Group (5 categories)                             | {1.00, White... | None       | 8       | Right | Nominal |
| 11 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 12 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 13 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 14 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 15 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 16 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 17 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 18 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 19 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 20 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 21 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 22 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 23 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 24 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 25 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 26 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 27 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 28 |                                 |         |       |          |   |                 |            |         |       | Nominal |
| 29 | rubcomm                         | Numeric | 10    | 2        | How common is litter or rubbish in immediate area?      | {1.00, Very ... | None       | 8       | Right | Nominal |
| 30 | vandcomm                        | Numeric | 10    | 2        | How common is vandalism or graffiti in immediate a...   | {1.00, Very ... | None       | 8       | Right | Nominal |
| 31 | poorhou                         | Numeric | 10    | 2        | How common are homes in poor condition/run down?        | {1.00, Very ... | None       | 8       | Right | Nominal |
| 32 | antisocx                        | Numeric | 9     | 2        | Anti-social behaviour in their neighbourhood (high s... | None            | None       | 8       | Right | Scale   |

Case identifier (9 digits) [ro...]

Follow-up module split [split]

Adult number 1 (respondent...)

How long lived in this area [...]

Living at this address 12 m...

Any paid work in last week [...]

In which way do you occup...

ONS harmonised marital st...

Ethnic Group (5 categories)...

Respondent education (5 c...

Type of area 2004: urban/ru...

England: Index of multiple d...

Wales: Index of multiple d...

Numeric Variable -> Output Variable:

agegrp7 -> Older35

Output Variable

Name: Older35

Label: Age recoded as 35 or older

Change

Old and New Values:

If... (optional case selection condition)

OK Paste Reset Cancel Help

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode ON

## Task 2: Recoding Variables

### Seminar Aims

#### Seminar Structure

#### Task 1

#### Task 2

- Once in the *Recode into Different Variables* menu:
  - ① Click twice on the variable to be recoded (*agegrp7*) to get it into the main box
  - 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*
  - ④ 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*
  - ⑦ Lastly, check that the new recoded variable has been created correctly



## Task 2: Recoding Variables

Seminar Aims

Seminar  
Structure

Task 1

Task 2

\*csew1314teachingopen.sav [DataSet1] - IBM SPSS Statistics Data Editor

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

1 : bcsvictim 0 Visible: 33 of 33 Variables

|    | rowlabel    | split | sex  | ysarea | resyago | work2 | tenure1 | inharm1 | agegrp7 | ethgrp2a | educat3 | rural2 | edepnvex |
|----|-------------|-------|------|--------|---------|-------|---------|---------|---------|----------|---------|--------|----------|
| 1  | 137068050.0 | 1.00  | 2.00 | 7.00   |         | 1.00  | 2.00    | 3.00    | 4.00    | 1.00     | 4.00    | 1.00   | 2.00     |
| 2  | 147461190.0 | 3.00  | 2.00 | 6.00   |         | 2.00  | 1.00    | 1.00    | 5.00    | 1.00     | 4.00    | 2.00   | 4.00     |
| 3  | 137116250.0 | 1.00  | 2.00 | 7.00   | 2.00    | 2.00  | 4.00    | 6.00    | 5.00    | 1.00     | 4.00    | 1.00   | 1.00     |
| 4  | 147354190.0 | 3.00  | 2.00 | 7.00   |         | 1.00  | 2.00    | 1.00    | 5.00    | 1.00     | 2.00    | 1.00   | 1.00     |
| 5  | 137061230.0 | 3.00  | 2.00 | 7.00   |         | 2.00  | 4.00    | 6.00    | 6.00    | 1.00     | 1.00    | 2.00   | 3.00     |
| 6  | 136898230.0 | 3.00  | 2.00 | 7.00   |         | 2.00  | 1.00    | 1.00    | 6.00    | 1.00     | 2.00    | 1.00   | 2.00     |
| 7  | 135507330.0 | 1.00  | 1.00 |        |         |       |         |         |         |          |         |        |          |
| 8  | 13640000.0  | 3.00  |      |        |         |       |         |         |         |          |         |        |          |
| 9  |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 10 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 11 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 12 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 13 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 14 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 15 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 16 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 17 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 18 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 19 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 20 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 21 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 22 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 23 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 24 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 25 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 26 |             |       |      |        |         |       |         |         |         |          |         |        |          |
| 27 | 137000320.0 | 4.00  |      |        |         |       |         |         |         |          |         |        |          |
| 28 | 136994150.0 | 3.00  | 1.00 | 6.00   |         | 1.00  | 4.00    | 3.00    | 2.00    | 1.00     | 4.00    | 1.00   | 1.00     |
| 29 | 136088080.0 | 4.00  | 2.00 | 1.00   | 2.00    | 1.00  | 4.00    | 5.00    | 5.00    | 1.00     | 5.00    | 1.00   | 2.00     |
| 30 | 147272190.0 | 3.00  | 1.00 | 7.00   |         | 2.00  | 5.00    | 2.00    | 6.00    | 1.00     | 1.00    | 2.00   | 4.00     |
| 31 | 137087210.0 | 1.00  | 2.00 | 7.00   | 1.00    | 2.00  | 4.00    | 1.00    | 6.00    | 1.00     | 4.00    | 2.00   |          |

Recode into Different Variables: Old and New Values

Old Value

Value:

System-missing

System- or user-missing

Range:

through

Range, LOWEST through value:

Range, value through HIGHEST:

3

All other values

New Value

Value: 1

System-missing

Copy old value(s)

Old --> New:

Add Change Remove

Output variables are strings Width: 8

Convert numeric strings to numbers ('5'-->5)

Continue Cancel Help

Data View Variable View

IBM SPSS Statistics Processor is ready Cases: 100 Unicode: ON



# Task 2: Recoding Variables

Seminar Aims

Seminar Structure

Task 1

Task 2

The screenshot shows the IBM SPSS Statistics Data Editor interface. The main window displays a dataset with 33 variables and 31 rows of data. A dialog box titled "Recode into Different Variables: Old and New Values" is open, showing the configuration for recoding the variable "rowlabel".

**Recode into Different Variables: Old and New Values**

- Old Value:**
  - Value: [ ]
  - System-missing
  - System- or user-missing
  - Range: [ ] through [ ]
  - Range, LOWEST through value: [ ]
  - Range, value through HIGHEST: [ ]
  - All other values
- New Value:**
  - Value: 0
  - System-missing
  - Copy old value(s)
- Old --> New:** 3 thru Highest --> 1
- 
- Output variables are strings Width: 8
- Convert numeric strings to numbers (5->5)
- 

The background data table shows the following variables: rowlabel, split, sex, yrsarea, resyago, work2, tenure1, lnharm1, agegrp7, ethgrp2a, educat3, rural2, edepnrvx. The data rows are numbered 1 through 31.



# Task 2: Recoding Variables

Seminar Aims

Seminar Structure

Task 1

Task 2

\*csew1314teachingopen.sav [DataSet1] - IBM SPSS Statistics Data Editor

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

Visible: 34 of 34 Variables

|    | rstl | wfromcar | wraped | wattack | wraceatt | woryx | bcsvictim | rubbcomm | vandcomm | poorhou | antisocx | filter_\$ | Older35 |
|----|------|----------|--------|---------|----------|-------|-----------|----------|----------|---------|----------|-----------|---------|
| 1  | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 3.00     | 3.00    | -2.07    | 0         | 1.00    |
| 2  | .    | .        | 4.00   | 4.00    | 4.00     | 1.13  | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 3  | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 4.00     | 3.00    | 24       | 0         | 1.00    |
| 4  | .    | .        | 4.00   | 3.00    | 4.00     | .26   | 1.00      | 4.00     | 4.00     | 4.00    | .        | 1         | 1.00    |
| 5  | .    | .        | 2.00   | 2.00    | 3.00     | -1.18 | .00       | 3.00     | 3.00     | 3.00    | .        | 0         | 1.00    |
| 6  | .    | .        | 4.00   | 3.00    | 4.00     | .82   | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 7  | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 3.00     | 3.00    | 1.22     | 0         | 1.00    |
| 8  | 3.00 | 3.00     | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 9  | .    | .        | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 10 | .    | .        | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 11 | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 3.00     | 3.00    | -94      | 0         | .00     |
| 12 | 4.00 | 3.00     | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 13 | .    | .        | 3.00   | 3.00    | 4.00     | .25   | .00       | 3.00     | 3.00     | 3.00    | .        | 0         | 1.00    |
| 14 | .    | .        | .      | .       | .        | .     | .00       | 2.00     | 4.00     | 1.00    | .        | 0         | 1.00    |
| 15 | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 16 | .    | .        | 4.00   | 3.00    | 4.00     | .21   | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 17 | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 3.00     | 3.00    | -94      | 0         | 1.00    |
| 18 | .    | .        | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 19 | .    | .        | 4.00   | 3.00    | 4.00     | .77   | .00       | 3.00     | 4.00     | 3.00    | .        | 0         | 1.00    |
| 20 | .    | .        | .      | .       | .        | .     | .00       | 3.00     | 3.00     | 3.00    | -2.42    | 0         | 1.00    |
| 21 | .    | .        | 4.00   | 4.00    | 4.00     | 1.39  | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 22 | .    | .        | .      | .       | .        | .     | .00       | 2.00     | 3.00     | 3.00    | .        | 0         | 1.00    |
| 23 | .    | .        | 4.00   | 3.00    | 4.00     | .82   | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 24 | .    | .        | .      | .       | .        | .     | 1.00      | 3.00     | 4.00     | 3.00    | .        | 1         | 1.00    |
| 25 | .    | .        | .      | .       | .        | .     | 1.00      | 4.00     | 4.00     | 4.00    | 25       | 1         | 1.00    |
| 26 | .    | .        | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 27 | .    | .        | .      | .       | .        | .     | .00       | 2.00     | 2.00     | 3.00    | .        | 0         | 1.00    |
| 28 | .    | .        | 4.00   | 3.00    | 4.00     | .21   | .00       | 3.00     | 3.00     | 3.00    | .        | 0         | .00     |
| 29 | .    | .        | .      | .       | .        | .     | 1.00      | 3.00     | 4.00     | 4.00    | .        | 1         | 1.00    |
| 30 | .    | .        | 4.00   | 3.00    | 4.00     | .51   | .00       | 4.00     | 4.00     | 4.00    | .        | 0         | 1.00    |
| 31 | .    | .        | .      | .       | .        | .     | .00       | 4.00     | 4.00     | 4.00    | 1.22     | 0         | 1.00    |

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode ON



## Task 2: Recoding Variables

Seminar Aims

Seminar  
Structure

Task 1

Task 2

- 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 Aims

Seminar  
Structure

Task 1

Task 2

- 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