

SPSS: Multiple response tables (via Multiple response)

This document will show how to generate a multiple response table or cross table as shown below. In this document the Multiple Response option is used in SPSS which unfortunately will not save the set when you save the file.

\$visited Frequencies				
		Responses		Percent of Cases
		N	Percent	
visited cinemas ^a	Visited Pathé de Munt last year	62	27.6%	49.6%
	Visited The Movies last year	45	20.0%	36.0%
	Visited Pathé Tuschinski last year	61	27.1%	48.8%
	Visited Pathé Arena last year	57	25.3%	45.6%
Total		225	100.0%	180.0%

a. Dichotomy group tabulated at value 1.

Output Frequency table of a multiple response set SPSS 23 or earlier

\$visited Frequencies				
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		N	Percent	
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Total		225	100.0%	180.0%

a. Dichotomy group tabulated at value 1.

Output version 24

Visited'sex Crosstabulation						
			Sex		Total	
			Female	Male		
visited cinemas ^a	Visited Pathé de Munt last year	Count	33	29	62	
		% within sex	53,2%	46,0%		
	Visited The Movies last year	Count	17	28	45	
		% within sex	27,4%	44,4%		
	Visited Pathé Tuschinski last year	Count	36	25	61	
		% within sex	58,1%	39,7%		
	Visited Pathé Arena last year	Count	28	29	57	
		% within sex	45,2%	46,0%		
	Total		Count	62	63	125

Percentages and totals are based on respondents.

a. Dichotomy group tabulated at value 1.

Output Cross table with a multiple response set SPSS 23 or earlier

\$visited'sex Crosstabulation					
			Sex		Total
			Female	Male	
visited cinemas ^a	Visited Pathé de Munt last year	Count	33	29	62
		% within sex	53,2%	46,0%	
	Visited The Movies last year	Count	17	28	45
		% within sex	27,4%	44,4%	
	Visited Pathé Tuschinski last year	Count	36	25	61
		% within sex	58,1%	39,7%	
	Visited Pathé Arena last year	Count	28	29	57
		% within sex	45,2%	46,0%	
Total		Count	62	63	125

Percentages and totals are based on respondents.

a. Dichotomy group tabulated at value 1.

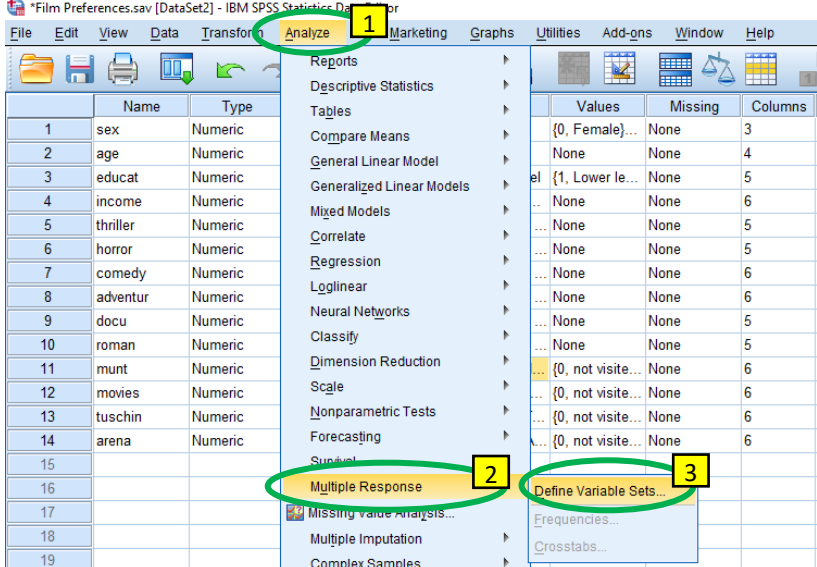
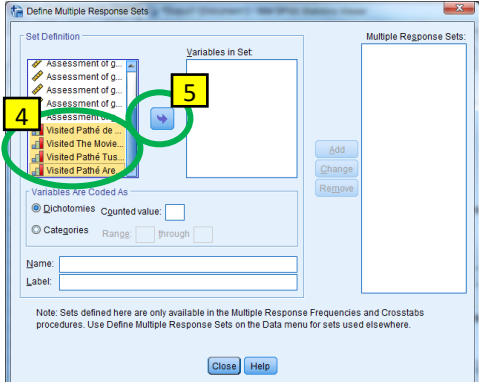
Output version 24

You can also follow the instructions described below in the instructional video available at <https://youtu.be/Juv5GPcP1Kk>.

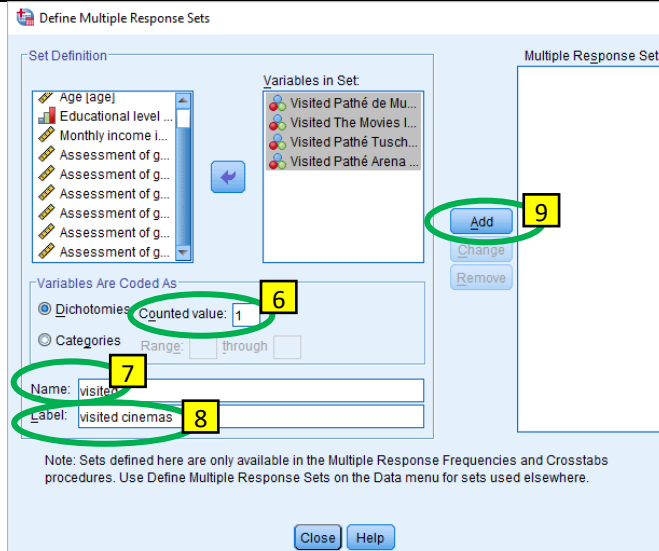
The example file used is *Film Preferences.sav* available on the companion website <http://PeterStatistics.com>.

Creating a multiple response set

In order to create a frequency table or a cross table from a question with multiple answers, you first need to create a multiple response set.

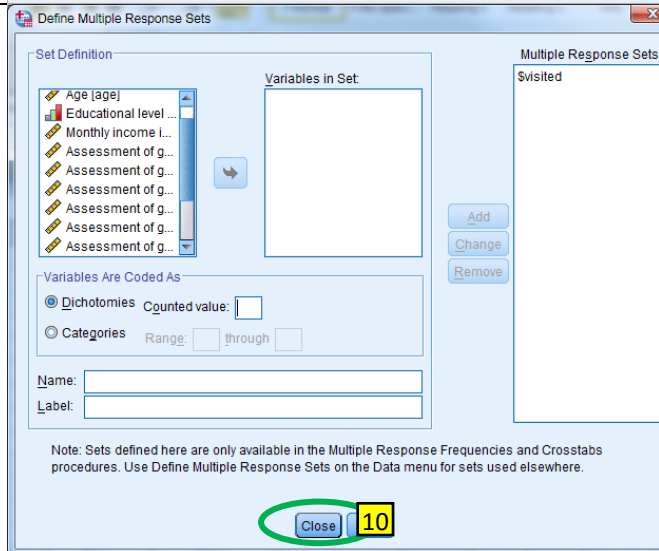
1. Click in the menubar on Analyze 2. Click on Multiple Response 3. Click on Define Variable Sets...	 The screenshot shows the SPSS menu bar. The 'Analyze' menu is highlighted with a yellow box and a green circle with the number 1. The 'Multiple Response' option is highlighted with a yellow box and a green circle with the number 2. The 'Define Variable Sets...' option is highlighted with a yellow box and a green circle with the number 3.
4. Select the variables that form one multiple answer question (you can use CTRL key to select multiple items) 5. Click on  to move them to the Variables in Set section.	 The screenshot shows the 'Define Multiple Response Sets' dialog box. The 'Set Definition' section has a list of variables on the left. The 'Variables in Set' section is empty. The 'Multiple Response Sets' section is empty. The 'Variables are Coded As' section has 'Dichotomies' selected. The 'Name' and 'Label' fields are empty. The 'Add' button is highlighted with a yellow box and a green circle with the number 4. The 'arrow' button is highlighted with a yellow box and a green circle with the number 5.

6. At Variables Are Coded As, enter the value that you are most interested in. In this example 1 indicated that someone did visit the cinema, and I'm interested in those who did, so at Counted value a 1 is entered in the example.
7. Enter a name for the set. Note that the same rules as for variables apply, so no spaces and cannot start with a number.
8. Enter a label for the set
9. Click on 



The dialog box 'Define Multiple Response Sets' is shown. It has three main sections: 'Set Definition', 'Variables in Set', and 'Multiple Response Sets:'. In the 'Set Definition' section, under 'Variables Are Coded As', the 'Dichotomies' radio button is selected, and the 'Counted value' is set to 1. The 'Name' field contains 'visited' and the 'Label' field contains 'visited cinemas'. The 'Add' button is circled in green and labeled with a yellow box containing the number 9. The 'Counted value' field is labeled with a yellow box containing the number 6. The 'Name' field is labeled with a yellow box containing the number 7, and the 'Label' field is labeled with a yellow box containing the number 8. The 'Variables in Set' section contains a list of variables including 'Visited Pathé de Mu...', 'Visited The Movies I...', 'Visited Pathé Tusch...', and 'Visited Pathé Arena...'. The 'Multiple Response Sets:' section is empty. At the bottom, there are 'Close' and 'Help' buttons.

10. Click on 

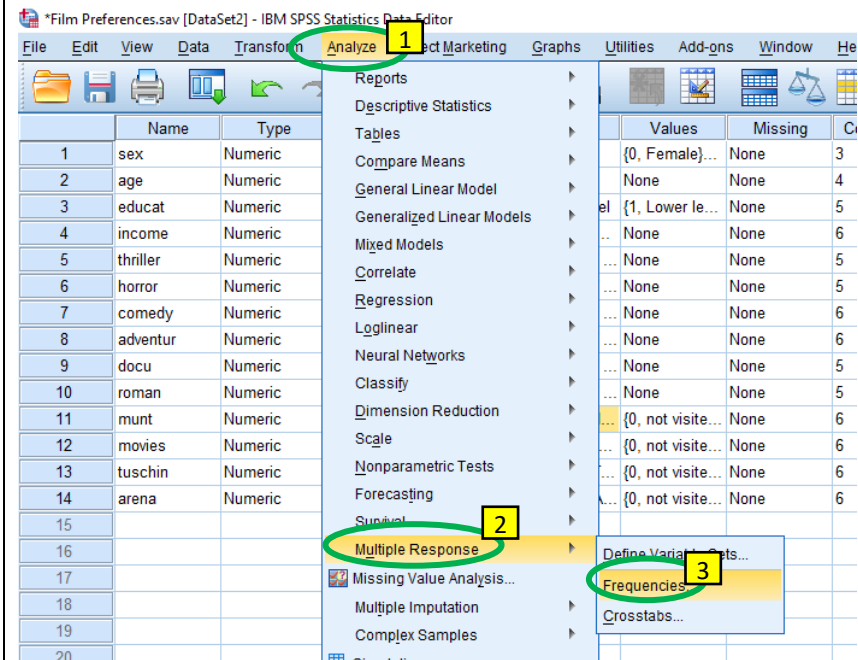


The dialog box 'Define Multiple Response Sets' is shown again. In this state, the 'Counted value' field is empty. The 'Name' and 'Label' fields are also empty. The 'Add' button is no longer visible. The 'Variables in Set' section is empty. The 'Multiple Response Sets:' section now contains a single entry: '\$visited'. At the bottom, the 'Close' button is circled in green and labeled with a yellow box containing the number 10.

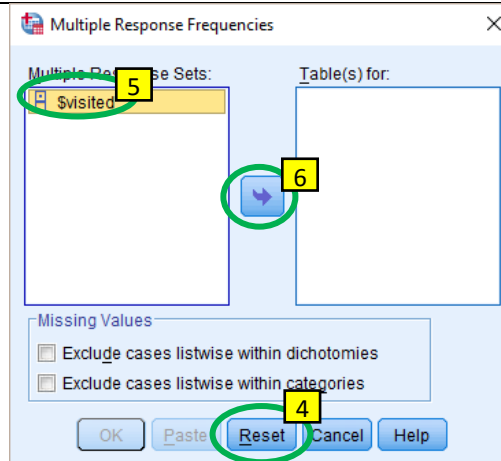
Generating a frequency table from a multiple response set

Now that the set has been created you can generate a table from it

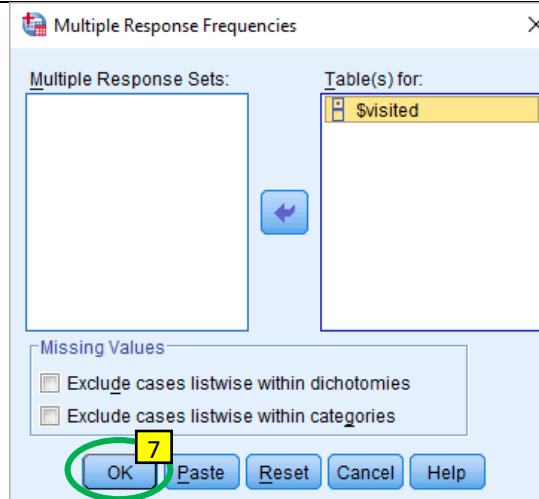
1. Click in the menubar on **Analyze**
2. Click on **Multiple Response**
3. Click on **Frequencies...**



4. Click on 
5. Click on the multiple response set
6. Click on  to move it to the Table(s) for section



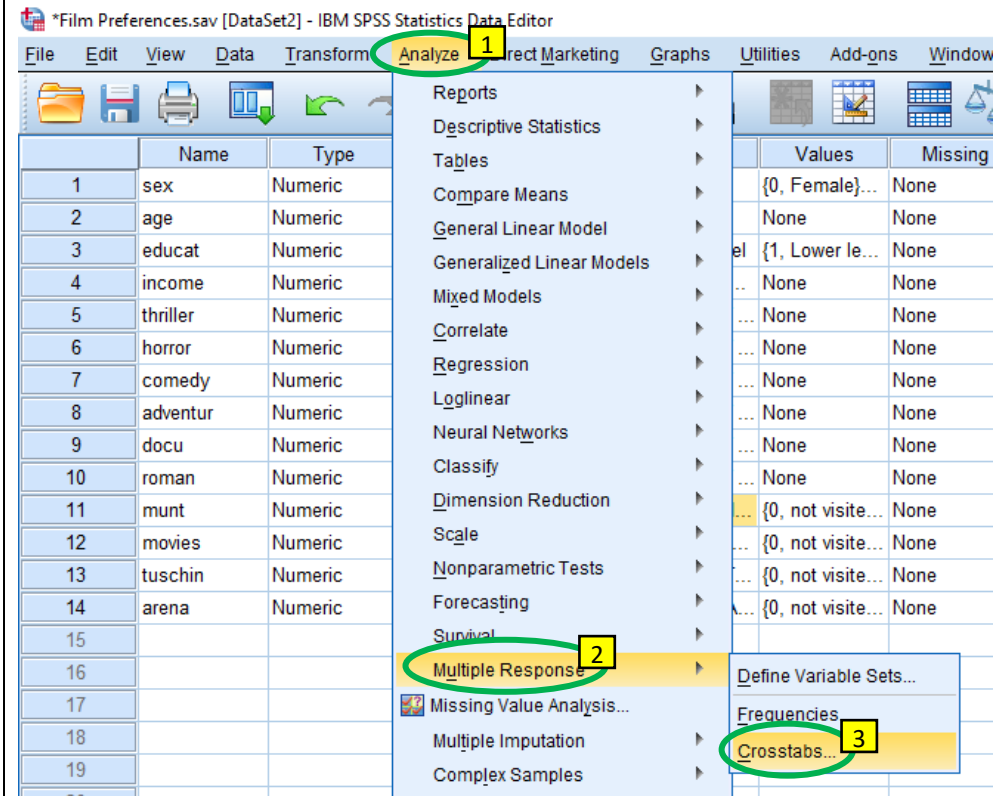
7. Click on 



Generating a cross table with a multiple response set

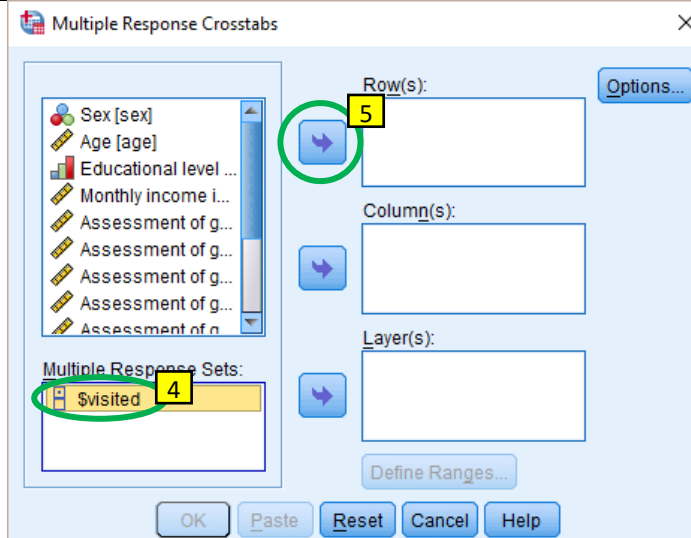
It's also possible to generate a cross table after you created a multiple response set.

1. Click in the menubar on **Analyze**
2. Click on **Multiple Response**
3. Click on **Crosstabs...**



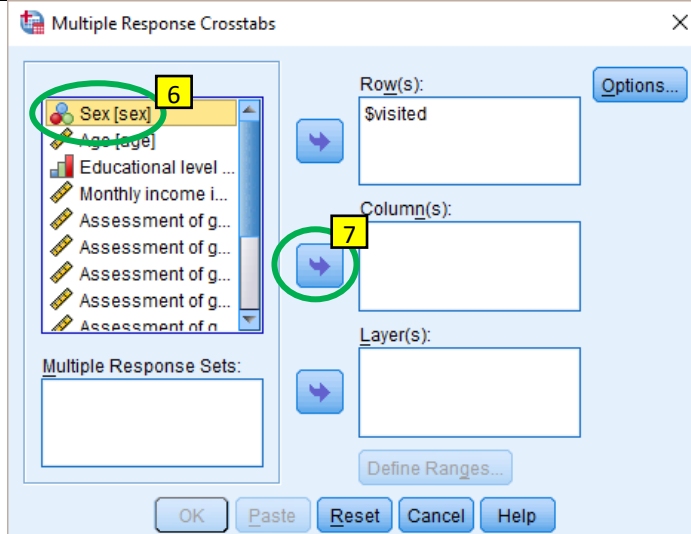
4. Click on the multiple response set

5. Click on  to move it to the Row(s)

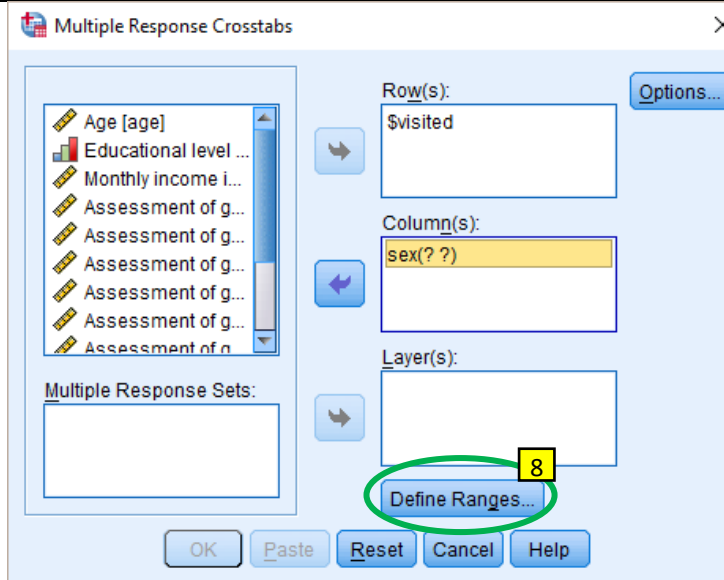


6. Click on the variable you want it to cross with

7. Click on  to move it to the Column(s)



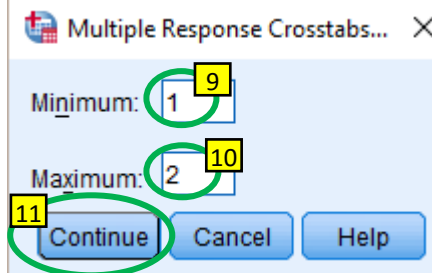
8. Click on **Define Ranges...**



9. Type the value of the lowest value at Minimum
(in the example this was 1 for male)

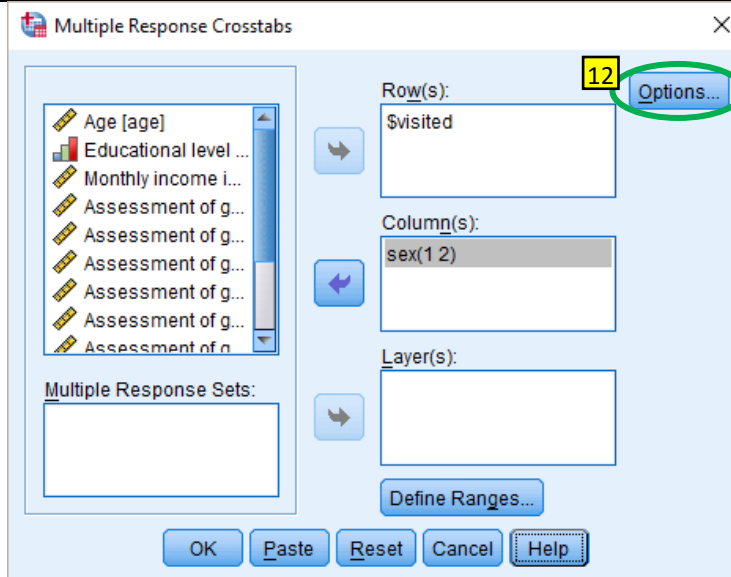
10. Type the value of the highest value at Maximum.
(In the example this was 2 for female)

11. Click on **Continue**



In case you also want to show percentages:

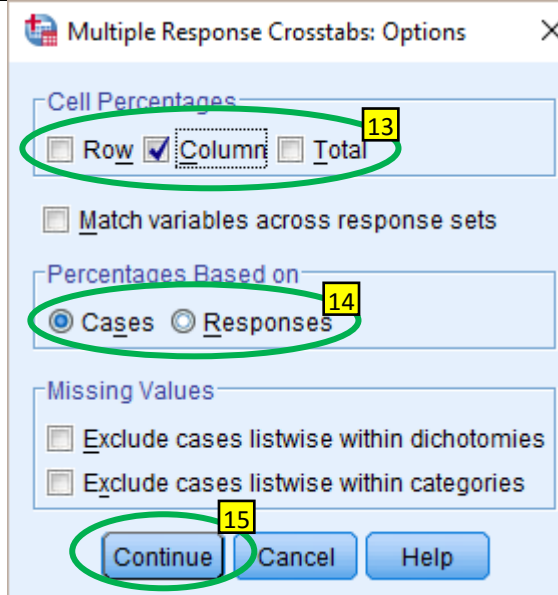
12. Click on **Options...**



13. Tick the type of percentages you want at the Cell Percentages. The Row will use each of the row total as 100%, Column will use the column total and Total the grand total

14. Since a multiple response set is used you can choose to determine the percentages based on cases, or based on Responses.

15. Click on **Continue**



16. Click on 

