# Tabulation – Measures

The tabulation feature in <odesi> allows users to easily create tables, of varying complexity, using the frequency data of 2 or more variables.

In this tutorial you will:

- Create a simple crosstabs using two variables
- Learn how to modify the crosstabs by adding measures
- Learn how to modify the measure variable.

Before we learn how to add measures, we must first create a table.

#### Creating a simple crosstab

- 1) The first step to creating a table in <odesi> is to find a survey to work with.
  - In this demonstration, we will be working with the Canadian Internet Use Survey, 2005 which is found in the Communications and Information.
- 2) Find variables of interest.
  - Open the *Variable Description* menu by clicking on the + icon.
  - Notice that there are several variable categories. In this demonstration we will look at *Demographic Variables*. Open this category by clicking on the + icon.

# TIP:

The instructions that follow provide a step by step look at adding and modifying measures to a crosstab in <odesi>.

Try to follow these instructions in your own browser as you progress through the tutorial.

• Click on the variable Age of respondent in 5 year groups to view its frequency data. Notice that we are in the *Descriptive* view.

- a voyage in data discovery <odesi> un voyage à la découverte des données Communications and Information CANADA Canadian Internet Use Survey Canadian Internet Use Survey, 2005 🗄 Metadata Variable Description Introduction 🗄 Demographic Variables Ever Users Past Use Location of Use 🗄 Individual Use 🗄 Specific Use 🗄 Government On-Line Medical Health Use Educational Use Social Cohesion Electronic Commerce 🗄 Non Use from Home E Privacy and Security Derived Income Variables 🗄 Weight Variable
  - 3) Open the tabulation menu by clicking on the *Tabulation* tab.
    - Notice that we have a blank table

DESCRIPTION	TABULATION	ANALYSIS	The second se
Dataset: Ca	nadian Interne	t Use Survey, 200	5
	Choose 'Add	i to column' to pl	ace the variable here
Choose 'Add to row' to place the variable here	To populate from the bro column or la	this table you ne wse list, click on ayers, or use it as	eed to select a variable it and then add it to row, a measure variable.

- 4) To add variables to the table:
  - Click on the variable Age of respondent in 5 year groups. A pop-up menu with 4 options will appear. Select Add to row.



• Now the frequency data of this variable is present in the row of our table.

Dataset: Canadian Internet Use Survey 2005

Age of respondent in 5 yea V					
Age of respondent in 5 year provins	Code	Frequency	% of all	% of valid	
18 to 24	1	2,455	8.1	8.1	
25 to 34	2	4,701	15.4	15.4	
35 to 44	3	5,946	19.5	19.5	
45 to 54	4	6,027	19.8	19.8	
55 to 64	5	4,943	16.2	16.2	
85 years of age or older	6	6,394	21.0	21.0	
Total		30,466	100.0	100.0	

 Click on the variable Marital status. Select Add to column from the pop-up menu.
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• Now we have a simple crosstabs of Age and Marital status.

Dataset: Canadian Internet	Use Survey, 2005			
Age of respondent in 5 year	Marital status (	of respondent Type		
Age of respondent in 5 year	💌 Marital status o	f respondent 💌 🛛 Column per	centage 👻	
Marital status of respondent	Married/living common law	Separated/divorced/widow or widower	Single, never married	Total
Age of respondent in 5 year groups				
18 to 24	2.8	0.2	29.7	8.1
25 to 34	16.0	4.0	25.5	15.4
35 to 44	22.6	13.1	18.1	19.5
45 to 54	22.3	19.0	14.2	19.8
55 to 84	18.6	19.3	6.9	16.2
85 years of age or older	17.7	44.5	5.6	21.0
Total	100.0	100.0	100.0	100.0
N=	17,061	6,770	6,635	30,466

#### Adding a measure to a table

- 1) Click on the variable *Household Income Quintile* which is found in the *Derived Income variables* category.
  - Select Add as measure from the pop-up menu.



• Now *Income* has been added as a measure in our table.

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Dataset: Canadian I	nternet Use Survey, 2005						
Age of respondent	in 5 yea— Marital status	of respondent	- Measure-				
And of research and it	n 5 vea. 👻 Marital status	of respondent 💌	Average	*			
Age of respondent i							
Age of respondent 1							
Measure: Household Incor	me quintile, Average						
Measure: Household Incor	me quintile, Average	,	<u></u>				
Measure: Household Incor	nt Married/living common law	Separated/divorced/w	vidow or widower	Single, never married			
Measure: Household Incor Marital status of responde Age of respondent in 5 ye	nt Married/living common law	Separated/divorced/w	vidow or widower	Single, never married			
Age of respondent i Measure: Household Incor Marital status of responde Age of respondent in 5 ye 18 to 24	nt Married/living common law 2.6	Separated/divorced/w	vidow or widower 1.64	Single, never married 2.77			
Age of respondent i Measure: Household Incor Marital status of responde Age of respondent in 5 ye 18 to 24 25 to 34	nt Married/living common law ar groups 2.6 3.5	Separated/divorced/w 3	vidow or widower 1.64 2.19	Single, never married 2.77 2.57			
Age of respondent i Measure: Household Incor Marital status of responde Age of respondent in 5 ye 18 to 24 25 to 34 35 to 44	nt Married/living common law ar groups 2.6 3.5 3.8	Separated/divorced/w 3 1	vidow or widower 1.64 2.19 2.40	Single, never married 2.77 2.57 2.41			
Age of respondent i Measure: Household Incor Marital status of responde Age of respondent in 5 ye 18 to 24 25 to 34 35 to 44 45 to 54	nt Married/living common law ar groups 2.6 3.5 3.8 3.7	Separated/divorced/w 3 1 0	vidow or widower 1.64 2.19 2.40 2.50	Single, never married 2.77 2.57 2.41 2.37			
Age of respondent i Measure: Household Incor Marital status of responde Age of respondent in 5 ye 18 to 24 25 to 34 35 to 44 45 to 54 55 to 64	nt Married/living common law ar groups 2.6 3.5 3.8 3.7 3.2	Separated/divorced/w 3 1 0 6 9	vidow or widower 1.64 2.19 2.40 2.50 2.07	Single, never married 2.77 2.57 2.41 2.37 2.18			

## Modifying measures

We can modify measures by changing the type of data that is presented.

- 1) Notice the drop down menu with the title *Measure*. It is here that we can select different types of data for our measure.
  - Click on the drop down menu. Notice that we have several options. From the list select *Standard Deviation.*



• Now we have a table with the standard deviation of income as a measure.

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Age of Age of Measure:	: Canadian Internet of respondent in 5 yea f respondent in 5 yea Household Income quintik	t Use Survey, 2005 A Marital status of Marital status of e, Standard deviation	of respondent f respondent 💌	Standard d	eviation 💌
Marital st	atus of respondent	Married/living common law	Separated/divorced/wid	low or widower	Single, never man
Age of re	spondent in 5 year groups				
18 to 24		1.15		0.81	
25 to 34		1.18		1.19	
35 to 44		1.14		1.20	1

ied

1.49 1.29 1.23

1.25

1.24

0.86

1.26

1.16

To clear the table, click on the reset button. This is found in the tool bar in the right hand side of the window.

1.19

1.26



## <u>Try it!</u>

45 to 54

55 to 64

65 years of age or older

Practice creating a table and adding a measure.

- Open the Household Internet Use Survey, 2003 which is found in the Communications and Information category.
- Add the variables *Household size* and *Household has used internet* to the rows and columns respectively.
- Add the variable *Income Wages and Salaries* as a measure.
- Change the type of data for the measure to *Standard Deviation*.