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Creating a Cross-Tabulation

This tutorial will show you how to create a cross-tabulation in Odesi.

The Odesi Repository:

To begin, choose a survey to use as an example.
Choose a General Social Survey. To find it,
Open up **Social Surveys** category
Click **Canada** category
And choose the **General Social Survey (GSS)** category
For this example, let's use **Cycle 29, Time Use**
Finally, click on the **Main File**

In order to create our cross-tabulation, we'll need to gather our variables.
Click on **Variable Description**

Let's build a table that shows people's job satisfaction versus the number of text messages they send each day.
Start by opening the **Time Spent Texting** variable category.

⊞ Perception of Time
⊟ Time Spent Texting
    ☑ Number of text messages per day
⊞ Unpaid Service
⊞ Subjective Well-being

When we click on the variable *Number of Text messages per day*, we can see a frequency chart of the responses.

Variable TST_01: Number of text messages per day

LITERAL QUESTION
On average, how many text messages do you send per day?

Values	Categories	N	NW	
1	1 to 10 texts	6661	11,149,391.6	38.3%
2	11 to 20 texts	1902	3,694,317.5	12.7%
3	21 to 30 texts	989	2,170,671.2	7.5%
4	31 to 40 texts	440	1,085,165.0	3.7%
5	41 to 50 texts	396	947,205.8	3.3%
6	51 to 60 texts	231	618,268.1	2.1%
7	Over 60 texts per day	723	1,997,553.6	6.9%
8	I do not send text messages	5695	7,444,973.3	25.6%
96	Valid skip	0	0.0	
97	Don't know	47	66,016.1	
98	Refusal	6	6,318.7	
99	Not stated	300	586,518.0	

In order to make our cross tabulation, we need to click on the **TABULATION** button at the top of the screen.

DESCRIPTION	TABULATION	ANALYSIS

Dataset: General Social Survey, Cycle
Time Use, Main File

Here you will see a table in which the cross-tabulation will be made.

Time Use, Main File

	Choose 'Add to column' to place the variable here.
Choose 'Add to row' to place the variable here.	To populate this table you need to select a variable from the browse list, click on it and then add it to row, column or layers, or use it as a measure variable.

Left click on the variable *Number of Text messages per day*.
More options now appear.
You can choose to add it to the cross-tab along the row or column.

Time Spent Texting
  Number of text mess...
Unpaid Service
Subjective Well-being
Health and stress
Main Activity of Respond...
Main activity
Satisfaction of respondent with current balance between

Add to row
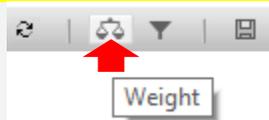Add to column
Use as filter
Add as measure

Choose **Add to column**

This table now shows the frequency counts in table form.

Number of text messages per day: Categories

Number of text messages per day	1 to 10 texts	11 to 20 texts	21 to 30 texts	31 to 40 texts	41 to 50 texts	51 to 60 texts	Over 60 texts per day	I do not send text messages	Don't know	Refusal	Not stated	Total
Code	1	2	3	4	5	6	7	8	97	98	99	
Frequency	6,661	1,902	989	440	396	231	723	5,695	47	6	300	17,390
% of all	38.3	10.9	5.7	2.5	2.3	1.3	4.2	32.7	0.3	0.0	1.7	100.0
% of valid	39.1	11.2	5.8	2.6	2.3	1.4	4.2	33.4	-	-	-	100.0

We should weight our data.
In the top right, click on the **Weight** option (it looks like a set of scales).

Weight

For this survey, we only have one weighting option, the *Person Weight*.

Weight
Weighting variables defined in the dataset | Weighting variables selected

Person weight

> <
OK   CLEAR

Click on **Person weight** to highlight it and add it to our variables by moving it to the right.

Weight
Weighting variables defined in the dataset | Weighting variables selected

Person weight

> <

Finally, click **OK**.

Weight
Weighting variables defined in the dataset | Weighting variables selected

> <

Person weight

OK   CLEAR

You can see that our data is now weighted.

Number of text messages per day: Categories

Number of text messages per day	1 to 10 texts	11 to 20 texts	21 to 30 texts	31 to 40 texts	41 to 50 texts	51 to 60 texts	Over 60 texts per day	I do not send text messages	Don't know	Refusal	Not stated	Total
Code	1	2	3	4	5	6	7	8	97	98	99	
Frequency	11,149,392	3,694,318	2,170,671	1,085,165	947,206	618,268	1,997,554	7,444,973	66,016	6,319	586,518	29,766,398.7
% of all	37.5	12.4	7.3	3.6	3.2	2.1	6.7	25.0	0.2	0.0	2.0	100.0
% of valid	38.3	12.7	7.5	3.7	3.3	2.1	6.9	25.6	-	-	-	100.0

Weight is on

Next, click on the Variable Category **Satisfaction of respondent with current balance between job and home life**.

> ⊟ Satisfaction of respondent with current balance between job and home life
>   Satisfaction with current balance between job and home life
>   Dissatisfaction - Job/home - Not enough time for family
>   Dissatisfaction - Job/home - Spends too much time on job/main activity
>   Dissatisfaction - Job and home - Not enough time for other activities
>   Dissatisfaction - Job/home - Cannot find suitable employment
>   Dissatisfaction - Job/home - Employment related reasons
>   Dissatisfaction - Job/home - Health reasons
>   Dissatisfaction - Job/home - Family related reasons
>   Dissatisfaction - Job/home - Other
>   Work-life balance - Difficulty because of the job - 12 months
>   Work-life balance - Difficulty because of family - 12 months
> ⊞ Household Regularly Hires paid help

Add the variable to the table.
Click on **Satisfaction with current balance between job and home life**.
This time, click **Add to row**.

> Satisfaction with current balance b... [Add to row]
> Dissatisfaction - Job/home - Not er
> Dissatisfaction - Job/home - Spenc [Add to column]
> activity
> Dissatisfaction - Job and home - N [Use as filter]
> Dissatisfaction - Job/home - Cannc [Add as measure]
> Dissatisfaction - Job/home - Employment related reasons

We now have a cross-tabulation table.

Number of text messages per day	1 to 10 texts	11 to 20 texts	21 to 30 texts	31 to 40 texts	41 to 50 texts	51 to 60 texts	Over 60 texts per day	I do not send text messages	Total
Satisfaction with current balance between job and home life									
Very satisfied	26.1	23.7	24.8	22.1	23.4	25.4	22.2	32.5	25.9
Satisfied	50.8	47.3	46.6	50.0	44.5	46.0	44.0	51.1	49.0
Neither satisfied nor dissatisfied	14.2	18.8	18.9	16.4	25.0	20.4	20.0	10.7	16.0
Dissatisfied	7.6	8.4	7.1	10.2	4.8	7.1	11.0	4.8	7.5
Very dissatisfied	1.3	1.8	2.6	1.3	2.3	1.1	2.8	0.9	1.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
N=	6,931,297.0	2,592,425.4	1,359,266.0	648,088.3	620,399.6	325,107.0	1,112,534.1	2,209,409.2	15,798,526.5

Satisfaction with...job and home life: Categories   Number of text messages per day: Categories   Type: Column percentage

🎧 Weight is on

The current table shows the column percentages, but we can change that by going to the pull down button and choosing a different option.
Choose **Raw numbers**.

> ...ay: Categories   Type: Column percentage
> ✓ Column percentage
> Row percentage
> Raw numbers
> Row and column percentage
>
> 21 to 30 texts   31 to 4...   s   O...
> 24.8   22.1   23.4   25.4

We now have a cross-tabulation table showing *The number of respondents by Satisfaction* and *daily number of text messages sent*.

| Satisfaction with...job and home life: Categories ▾ | | Number of text messages per day: Categories ▾ | | Type: Raw numbers ▾ | | | | | |

Number of text messages per day	1 to 10 texts	11 to 20 texts	21 to 30 texts	31 to 40 texts	41 to 50 texts	51 to 60 texts	Over 60 texts per day	I do not send text messages	Total
Satisfaction with current balance between job and home life									
Very satisfied	1,808,547.7	613,357.9	336,577.8	143,488.8	145,100.2	82,657.3	247,368.3	717,407.3	4,094,505.3
Satisfied	3,521,257.5	1,225,099.7	634,010.9	323,859.8	276,148.7	149,411.8	489,621.1	1,128,212.3	7,747,621.7
Neither satisfied nor dissatisfied	986,285.7	488,513.1	257,531.9	106,278.4	155,397.5	66,251.0	222,490.8	237,444.4	2,520,192.7
Dissatisfied	524,303.8	218,625.4	96,331.0	66,029.2	29,632.7	23,226.6	122,440.7	107,044.5	1,187,633.9
Very dissatisfied	90,902.4	46,829.2	34,814.3	8,432.2	14,120.5	3,560.3	30,613.2	19,300.7	248,572.9
N=	6,931,297.0	2,592,425.0	1,359,265.0	648,088.0	620,399.0	325,107.0	1,112,534.0	2,209,409.0	15,798,526.5

🔁 Weight is on

With the other pull downs, we can edit the table by switching variables from row to column or removing variables from our table.

We can also add more variables.
Let's say we want to see how these numbers are split between the sexes.
Let's add **Sex** to our table.

Click on the Variable category **Demographics and household composition derived variables**.
Click on the variable **Sex of respondent**.
Finally, click **Add to row**.

==We can now see any possible differences between men and women.==

Dataset: General Social Survey, Cycle 29, 2015 [Canada]: Time Use, Main File

Time Use, Main File

Satisfaction with...job and home life: Categories ▾	Sex of respondent: Categories ▾	Number of text messages per day: Categories ▾	Type: Raw numbers ▾

Number of text messages per day		1 to 10 texts	11 to 20 texts	21 to 30 texts	31 to 40 texts	41 to 50 texts	51 to 60 texts	Over 60 texts per day	I do not send text messages	Total
Satisfaction with current balance between job and home life	Sex of respondent									
Very satisfied	Male	964,439.1	329,410.9	182,433.7	77,748.0	73,753.4	44,236.8	143,321.8	418,229.0	2,233,572.8
	Female	844,108.6	283,947.0	154,144.1	65,740.8	71,346.7	38,420.5	104,046.5	299,178.3	1,860,932.5
Satisfied	Male	1,954,881.0	640,033.7	366,751.3	188,533.1	136,210.7	102,097.8	267,485.1	671,537.4	4,327,530.3
	Female	1,566,376.4	585,066.0	267,259.6	135,326.6	139,938.0	47,314.0	222,136.0	456,674.9	3,420,091.5
Neither satisfied nor dissatisfied	Male	516,826.4	284,800.7	126,509.8	56,198.0	70,806.9	42,457.3	122,117.5	156,285.3	1,376,001.8
	Female	469,459.3	203,712.4	131,022.1	50,080.4	84,590.6	23,793.7	100,373.3	81,159.1	1,144,190.9
Dissatisfied	Male	256,398.2	121,988.2	51,495.9	31,303.4	12,059.8	12,331.4	67,733.1	49,659.4	602,969.6
	Female	267,905.5	96,637.2	44,835.1	34,725.8	17,572.9	10,895.2	54,707.5	57,385.0	584,664.3
Very dissatisfied	Male	59,996.4	12,828.4	22,126.3	1,103.1	11,276.8	3,560.3	25,096.8	12,913.8	148,901.9
	Female	30,906.0	34,000.8	12,688.0	7,329.1	2,843.7	0.0	5,516.4	6,387.0	99,671.0
N=		6,931,297.0	2,592,425.0	1,359,265.0	648,088.0	620,399.0	325,107.0	1,112,534.0	2,209,409.0	15,798,526.5

🔄 Weight is on

For more information contact Data Services

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