[Commentary by John F Hall]

[New page 9 July 2018]

John MacInnes

An Introduction to Secondary Data Analysis with IBM SPSS Statistics (Sage, Dec. 2017)

Chapter 4: Getting Started with SPSS

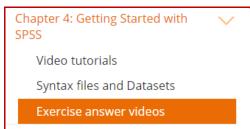
Exercise video answer 10 (4'48")

Previous guides:

| Macinnes 2017 Aide-mémoire for easier navigation of companion website |
|---|
| MacInnes 4.1.1 Overview of video tutorials 1 to 6 |
| MacInnes 4.1.2 Downloading the European Social Survey Practice File |
| MacInnes 4.1.3 Downloading the SPSS syntax |
| MacInnes 4.1.4_Checking_the_SPSS_files |
| MacInnes 4.1.5 Guide to video tutorials 7 and 8 |
| MacInnes 4.1.6 Guide to video tutorial 9 |
| MacInnes 4.1.7 Guide to video tutorials 10 and 11 |
| MacInnes 4.1.8 Guide to video tutorial 12 |
| Macinnes_4.2.1_Exercise_answer_videos_1-6 |
| MacInnes 4.2.2 Exercise answer video 7 |
| MacInnes 4.2.3 Exercise video answer 8 |
| MacInnes 4.2.4 Exercise video answer 9 |
| |

Chapter.4: <u>Exercise answer videos</u>

[direct link to videos on companion site]



Extract from page 104:

10 Produce a chart of the mean size of households across the countries in the survey, ranking average household size from the smallest to the largest.

Exercise question 10

Produce a chart of the mean size of households across the countries in the survey, ranking average household size from the smallest to the largest.

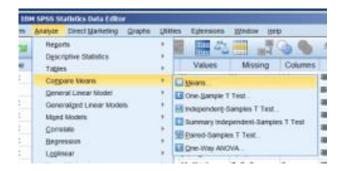
Dependent variable:hhmnbNumber of people living regularly as member of householdIndependent variable:cntryCountrySPSS command:MEANS

[NB: JM leaves the previous cntry by tvtot table in view while specifying a new analysis.]

Checks that pspwght is in operation and that all cases are selected.

From the Data Editor:

Analyze >> Compare Means >> Means



In the Means dialog box, scroll down to hhmnb and click on to transfer it to Dependent List

| Image: Concel Help Image: Concel Help |
|---|
|---|

4

Scroll down to hhmnb and click on

to transfer it to Independent List

| Means | Dependent List: | <u>Options</u> | 📽 Means | Dependent List: |
|-------|---|--------------------|--|--|
| | Layer 1 of 1 Previous Next Layer 1 of 1 Sector 2015 Paste Reset Cancel Help | Style Bootstrap | tvtot polintr polintr frscale freehms figblg frigdnm frigdnm physact | Layer 1 of 1 Previous Next Layer 1 of 1 Carcel Help |

Click on Options...

[NB: This brings up the Means Options dialog showing the default statistics Mean, Number of Cases and Standard Deviation, in the Cell Statistics pane, but in the video it shows only Mean and Number of Cases. To tally with the video, highlight Standard Deviation and click on to return it to the Statistics pane.]

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ions... y<u>l</u>e... strap...

| 👫 Means: Options 🛛 🗙 | 🕯 Means: Options 🔀 | 🚔 Means: Options |
|--|---|---|
| Statistics: Cell Statistics: Median Grouped Median Std. Error of Mean Sum Minimum Maximum Range First Last Variance Kurtosis Std. Error of Skewnev | Statistics: Minimum Maximum Maximum Range First Last Variance Kurtosis Std. Error of Kurtosis Skewness Std. Error of Skewne Harmonic Mean Geometric Mean Percent of Total Sur Percent of Total N | Statistics: Cell Statistics: Maximum Range First Last Variance Kurtosis Std. Error of Kewne Harmonic Mean Geometric Mean Percent of Total Sur Percent of Total N Standard Deviation |
| Statistics for First Layer Anova table and eta I set for linearity Continue Cancel Help Click Continue to return to | Statistics for First Layer Anova table and eta I est for linearity Continue Cancel Help the Means dialog: | Statistics for First Layer Anova table and eta Test for linearity Continue Cancel Help |

| idno idno tvtot polintr trstprt Irscale freehms rlgblg | Dependent List: | <u>Options</u> Style <u>B</u> ootstrap |
|--|-----------------|--|
| Rigdnm Rigdnm Sprncntr | Contry | |

[NB: hhmnb and cntry are now both grayed out]

Click on

to get table.

Double click the table to enter Pivot mode:

Report

OK

Highlight all means in column (not the Total)

| Country | Mean | N |
|--------------------|------|-------|
| Albania | 4.53 | 1189 |
| Belgium | 2.81 | 1869 |
| Bulgaria | 3.06 | 2260 |
| Switzerland | 2.75 | 1493 |
| Cyprus | 3.31 | 1116 |
| Czech Republic | 2.96 | 2009 |
| Germany | 2.64 | 2951 |
| Denmark | 2.59 | 1650 |
| Estonia | 2.64 | 2380 |
| Spain | 3.07 | 1886 |
| Finland | 2.44 | 2197 |
| France | 2.82 | 1968 |
| United Kingdom | 2.88 | 2285 |
| Hungary | 2.71 | 2014 |
| Ireland | 3.28 | 2628 |
| Israel | 3.86 | 2506 |
| Iceland | 3.10 | 749 |
| Italy | 2.96 | 960 |
| Lithuania | 2.80 | 2109 |
| Netherlands | 2.81 | 1845 |
| Norway | 2.72 | 1623 |
| Poland | 3.27 | 1893 |
| Portugal | 2.95 | 2151 |
| Russian Federation | 2.92 | 2484 |
| Sweden | 2.61 | 1847 |
| Slovenia | 3.21 | 1255 |
| Slovakia | 3.33 | 1847 |
| Ukraine | 3.26 | 2178 |
| Kosovo | 6.25 | 1295 |
| Total | 3.06 | 54637 |

| | Report | | | | | |
|---|--|------|-------|---------------------------------------|--|--|
| | Variables Number of people living regularly as member of household | | | | | |
| | Country | Mean | Ν | | | |
| | Albania | 4.53 | 1189 | i i | | |
| | Belgium | 2.81 | 1869 | | | |
| | Bulgaria | 3.06 | 2260 | | | |
| | Switzerland | 2.75 | 1493 | | | |
| | Cyprus | 3.31 | 1116 | | | |
| | Czech Republic | 2.96 | 2009 | | | |
| | Germany | 2.64 | 2951 | | | |
| | Denmark | 2.59 | 1650 | | | |
| | Estonia | 2.64 | 2380 | | | |
| | Spain | 3.07 | 1886 | | | |
| | Finland | 2.44 | 2197 | | | |
| | France | 2.82 | 1968 | | | |
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| • | Hungary | 2.71 | 2014 | | | |
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| | Ukraine | 3.26 | 2178 | | | |
| | Kosovo | 6.25 | 1295 | | | |
| | Total | 3.06 | 54637 | | | |
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Report

Variables Number of people living regularly as mem

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|--------------------|------|-------|
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| Albania | 4.53 | 1189 |
| Kosovo | 6.25 | 1295 |
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| Report |
|--|
| Number of people living regularly as member of household |

| Country | Mean | Ν |
|--------------------|------|-------|
| Finland | 2.44 | 2197 |
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| Israel | 3.86 | 2506 |
| Albania | 4.53 | 1189 |
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| Total | 3.06 | 54637 |

or

Right click on highlighted means >> Sort Rows >> Ascending

| Country Mean N Albania 4.53 1189 Belgium 2.81 1869 Bulgaria 3.06 2260 Switzerland 2.75 1493 Cyprus 3.31 1116 Czech Republic 2.96 2009 Germany 2.64 2951 Denmark 2.59 1650 Estonia 2.64 2380 Spain 3.07 1886 Finland 2.44 2197 France 2.82 1968 United Kingdom 2.88 2285 Hungary 2.71 2014 Ireland 3.28 2628 Israel 3.86 2506 Iceland 3.10 749 Italy 2.96 960 Lithuania 2.80 2109 Netherlands 2.81 1845 Norway 2.72 1623 Poland 3.27 1893 P | Variables Number of people living regularly as me | | | | |
|--|---|------|-------|--|--|
| Belgium2.811869Bulgaria3.062260Switzerland2.751493Cyprus3.311116Czech Republic2.962009Germany2.642951Denmark2.591650Estonia2.642380Spain3.071886Finland2.442197France2.821968United Kingdom2.882285Hungary2.712014Ireland3.282628Israel3.862506Iceland3.10749Italy2.96960Lithuania2.802109Netherlands2.811845Norway2.721623Poland3.271893Portugal2.952151Russian Federation2.922484Sweden2.611847Slovenia3.211255Slovakia3.331847 | Country | Mean | Ν | | |
| Bulgaria3.062260Switzerland2.751493Cyprus3.311116Czech Republic2.962009Germany2.642951Denmark2.591650Estonia2.642380Spain3.071886Finland2.442197France2.821968United Kingdom2.882285Hungary2.712014Ireland3.282506Iceland3.10749Italy2.96960Lithuania2.802109Netherlands2.811845Norway2.721623Poland3.271893Portugal2.952151Russian Federation2.922484Sweden2.611847Slovakia3.331847 | Albania | 4.53 | 1189 | | |
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| Cyprus3.311116Czech Republic2.962009Germany2.642951Denmark2.591650Estonia2.642380Spain3.071886Finland2.442197France2.821968United Kingdom2.882285Hungary2.712014Ireland3.282628Israel3.862506Iceland3.10749Italy2.96960Lithuania2.802109Netherlands2.811845Norway2.721623Poland3.271893Portugal2.952151Russian Federation2.922484Sweden2.611847Slovakia3.331847 | Bulgaria | 3.06 | 2260 | | |
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| Norway2.721623Poland3.271893Portugal2.952151Russian Federation2.922484Sweden2.611847Slovenia3.211255Slovakia3.331847 | Lithuania | 2.80 | 2109 | | |
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| 1 Uzraina 2.06 24.70 | Slovakia | 3.33 | 1847 | | |
| Okraine 3.20 2178 | Ukraine | 3.26 | 2178 | | |
| Kosovo 6.25 1295 | Kosovo | 6.25 | 1295 | | |
| Total 3.06 54637 | Total | 3.06 | 54637 | | |

| Country | Mean | Ν |
|--------------------|------|-------|
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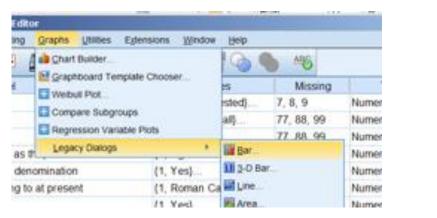
Number of people living regularly as member of household JM proceeds to copy the table to Excel and produce charts (not reproduced here).

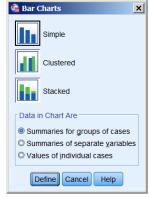
He also produces them using SPSS.

Charts from SPSS

| Variables: | hhmnb cntry | Number of people living regularly as member of household Country |
|--------------|----------------|---|
| SPSS command | CHART | • |

Graphs >> Legacy Dialogs >> Bar





Define

| 🝓 Define Simple Bar: Summaries for Groups of Cases 🛛 🗙 | | | | |
|--|--|------------|-------------------|--|
| Respondent's id Country [cntry] TV watching, tot How interested in Trust in political Placement on lef Gays and lesbia Belonging to part Religion or deno Born in country [Physically active Religion or denol Born in country [Physically active Keligion or denol Born in country [Physically active Age of responde Legal marital stat Main activity, last Total hours norm Design weight [d Population size w agegroup agegroup Trust in political Template | Bars Represent N of cases Qum. N Other statistic (e.g., mean) Variable: Change Statis Category Axis: Category Axis: Panel by Rows: Nest variables (no en Columns: Nest variables (no en columns: Nest variables (no en columns) | mpty rows) | Ţities Ωptions | |
| | | | | |

[NB: JM's SPSS settings use variable **labels** not variable **names**: in very large files this makes it difficult to find the variable(s) you want.]

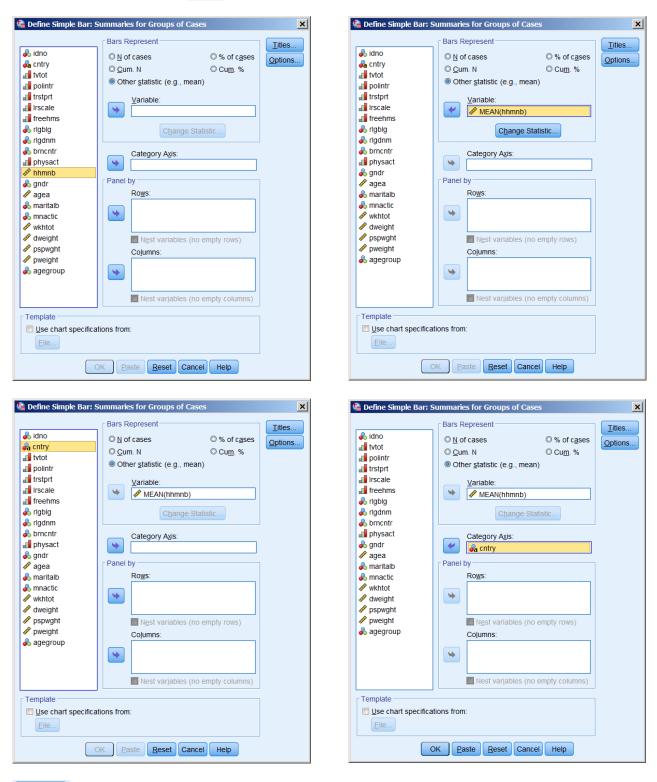
Drag the right edge of the window out see the full labels:

It's easier with variable Labels (but for this you need to change SPSS settings):



| 🔚 Define Simple Bar: S | Summaries for Groups of Cases | × |
|-------------------------|-----------------------------------|----------------|
| | Bars Represent | <u>T</u> itles |
| 🚴 idno 🚜 cntry | | Options |
| tvtot polintr | O Other statistic (e.g., mean) | |
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| pspwght pweight | Columns: | |
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| r Template | | |
| Use chart specification | ations from: | |
| <u>E</u> ile | | |
| | OK Paste Reset Cancel Help | |

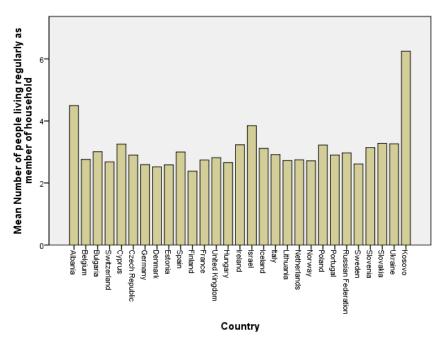
Highlight hhmnb and click in the variable box which will fill with MEAN(hhmnb)



Paste generates the following syntax:

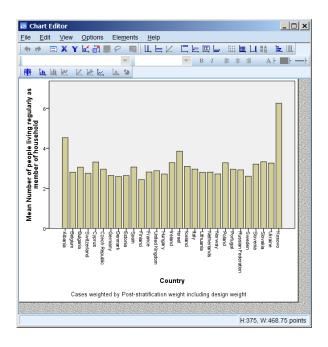
GRAPH

/BAR(SIMPLE)=MEAN(hhmmb) BY cntry. which produces the following chart:

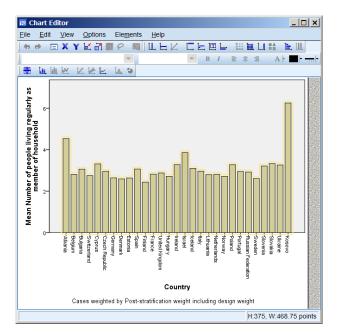


Cases weighted by Population size weight

Double click the chart to open the Chart Editor:



Double click anywhere in the bars: (they will be outlined in yellow.)



and the Properties dialog opens: Change Custom

| Properties | | × | | | |
|-------------------------|----------------------------|----------------------------|--|--|--|
| Bar Options | Depth & Angle | Variables | | | |
| Chart Size | Fill & Border | Categories | | | |
| Variable: Country T | | | | | |
| | categories less than | 5 % | | | |
| Categories | Discutions A | | | | |
| Order: | om 🔻 <u>D</u> irection: As | scending 💌 | | | |
| Albania | | | | | |
| Belgium | | | | | |
| Bulgaria Switzerland | | × | | | |
| Cyprus Czech Repub | lic | T | | | |
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| | | t | | | |
| | | | | | |
| | | | | | |
| Lower margin (%): | 5 <u>U</u> pper m | argin (%): 5 | | | |
| | Apply | <u>C</u> lose <u>H</u> elp | | | |

to Statistic

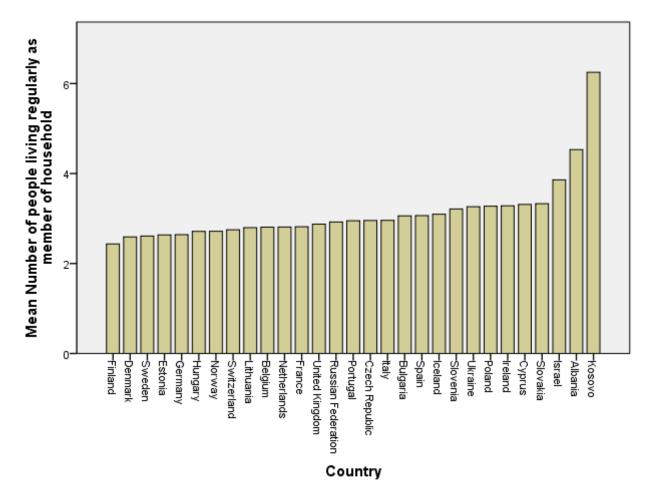
| Properties X | | | |
|--|--|--------------|-------------------|
| Bar Options | Depth & Angle | Variables | |
| Chart Size | Fill & Border | Categories | |
| Variable: Country Collapse (sum) Categories So <u>r</u> t by: Stati <u>O</u> rder: Cust Albania Belgium Bulgaria Switzerland Cyprus Czech Reput <u>E</u> xcluded: | categories less than: stic Direction: Asc om stic e | | <u>v</u> a ⊂Ca |
| Lower margin (%): | 5 <u>U</u> pper ma | ırgin (%): 5 | Lo |
| | | 2ancel Help | |

| Properties X | | | | | |
|--|---------------------|---------------------------|--|--|--|
| Bar Options | Depth & Angle | Variables | | | |
| Chart Size | Fill & Border | Categories | | | |
| Variable: Country | Variable: Country T | | | | |
| Collapse (sum) categories less than: 5 % | | | | | |
| Sort by: Custom Direction: Ascending | | | | | |
| Order: Custom Albania Statistic Belgium Value Switzerland Cyprus Czech Republic | | | | | |
| Excluded: | | | | | |
| Lower margin (%): 5 Upper margin (%): 5 | | | | | |
| | | <u>Close</u> <u>H</u> elp | | | |

and click Apply

| Properties | | × | | |
|---|----------------------|------------|--|--|
| Bar Options | Depth & Angle | Variables | | |
| Chart Size | Fill & Border | Categories | | |
| Variable: Country ▼ Country ▼ Country ▼ Categories less than: 5 % | | | | |
| Sort by: Stati | stic 🔻 Direction: As | scending 🔻 | | |
| Order: Finland Denmark Sweden Estonia Germany Hungary | | | | |
| Excluded: | | | | |
| Lower margin (%): | 5 Upper m | Close Help | | |

Click Close to get the chart with bars re-ordered in ascending order of means:



Cases weighted by Post-stratification weight including design weight

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