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Webinar

Statistics for Data Analysis

LaunchBox

The gateway to Statistics for Data Analysis solution

Add-On

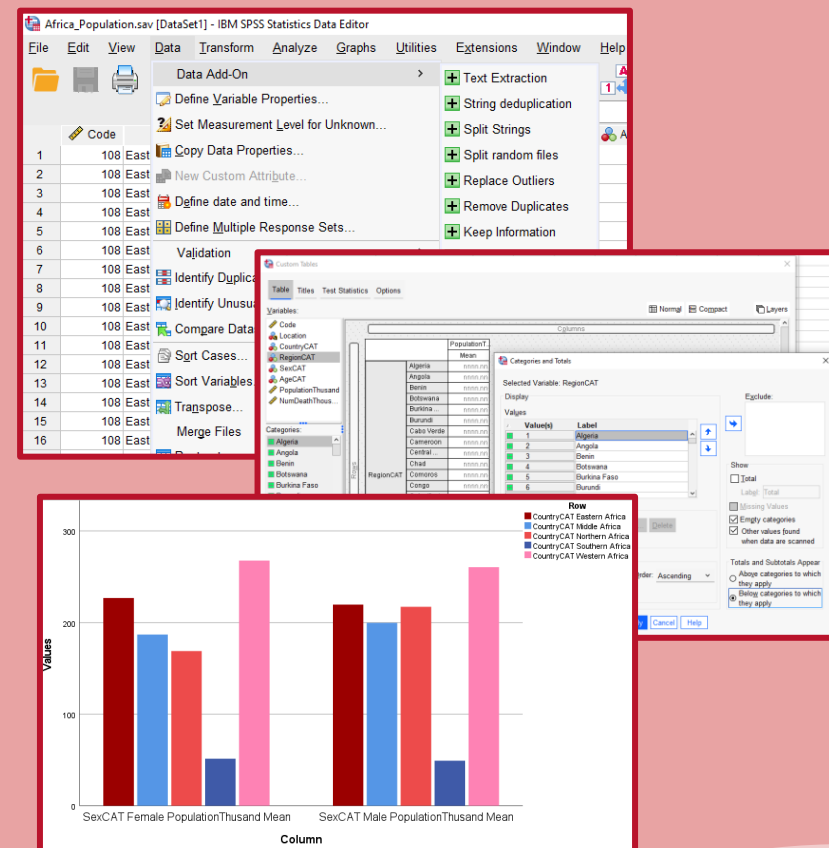
Additional features with the aim of facilitating and automating the daily work

Data import

- Import from Excel file and from text file
- Automatic ID Add-On
- Split Strig Add-On
- Add Days Add-On

Data descriptive analysis

- Data preparation Menu
- Custom Tables
- RSVP Graph Add-On



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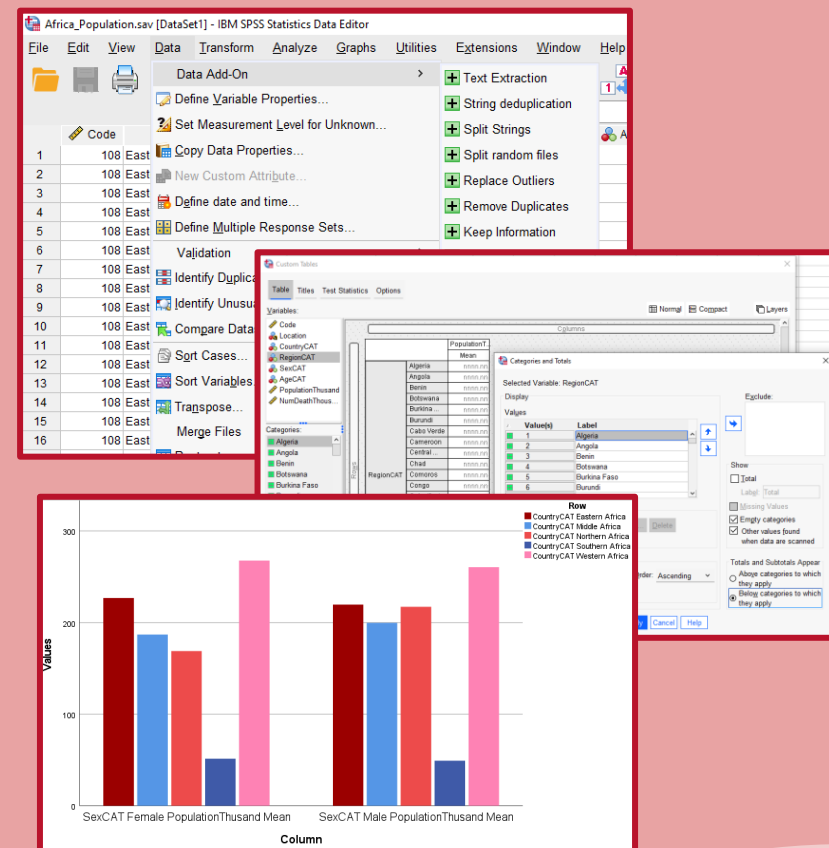
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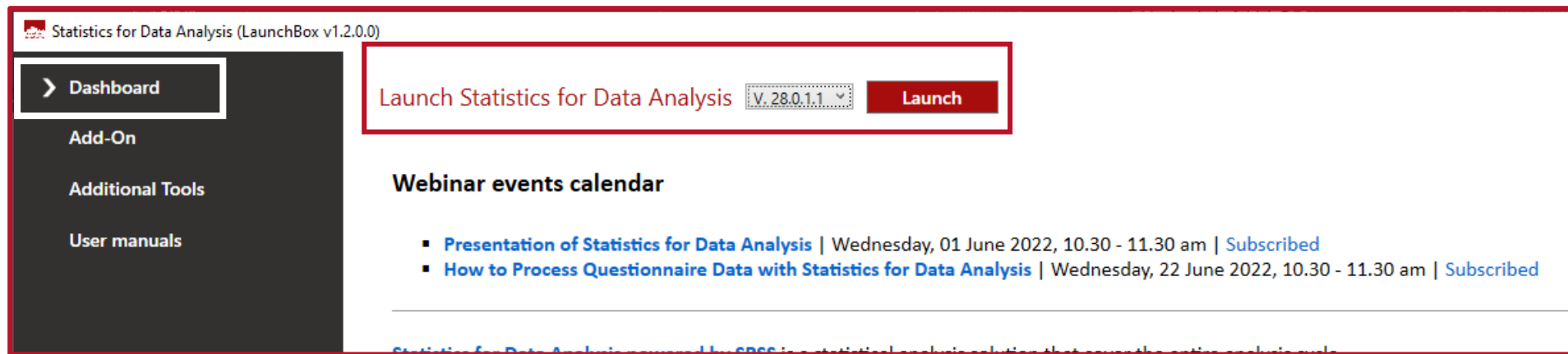
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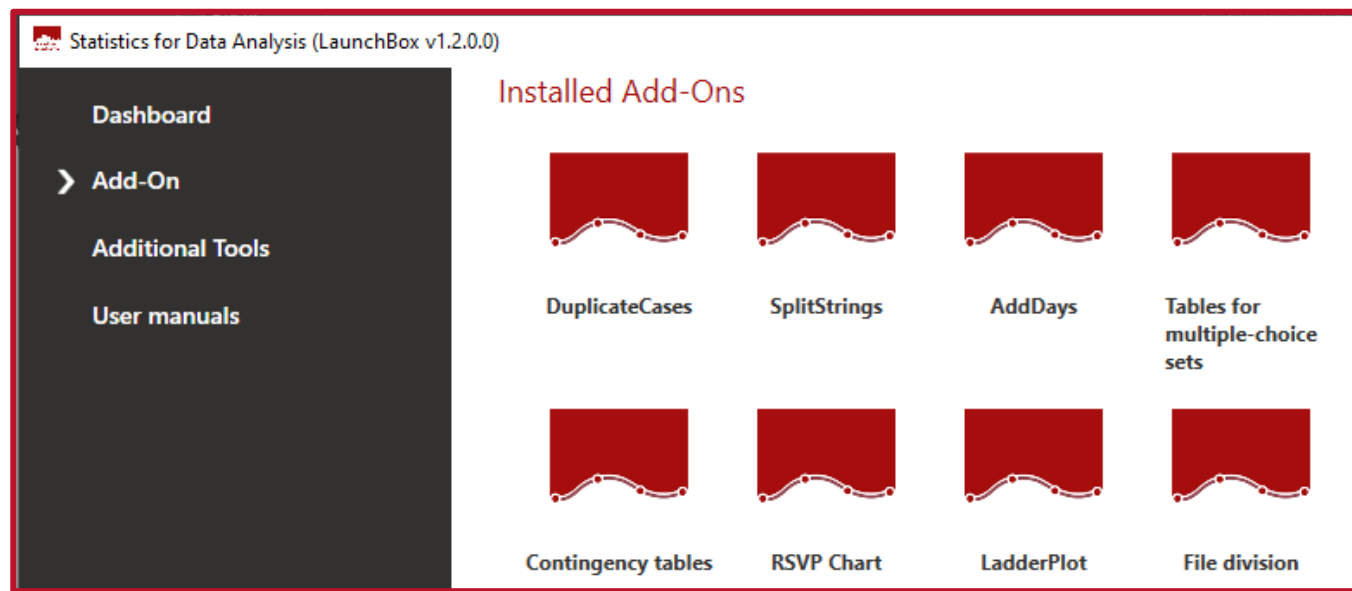
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The LaunchBox It is the gateway to the **Statistics for Data Analysis** solution, providing **access to the software** (during installation, start-up and upgrade)



The Add-Ons are **additional features** that are automatically installed in the SPSS Statistics menus with the aim of facilitating and automating your daily work, to get the most out of your analysis experience



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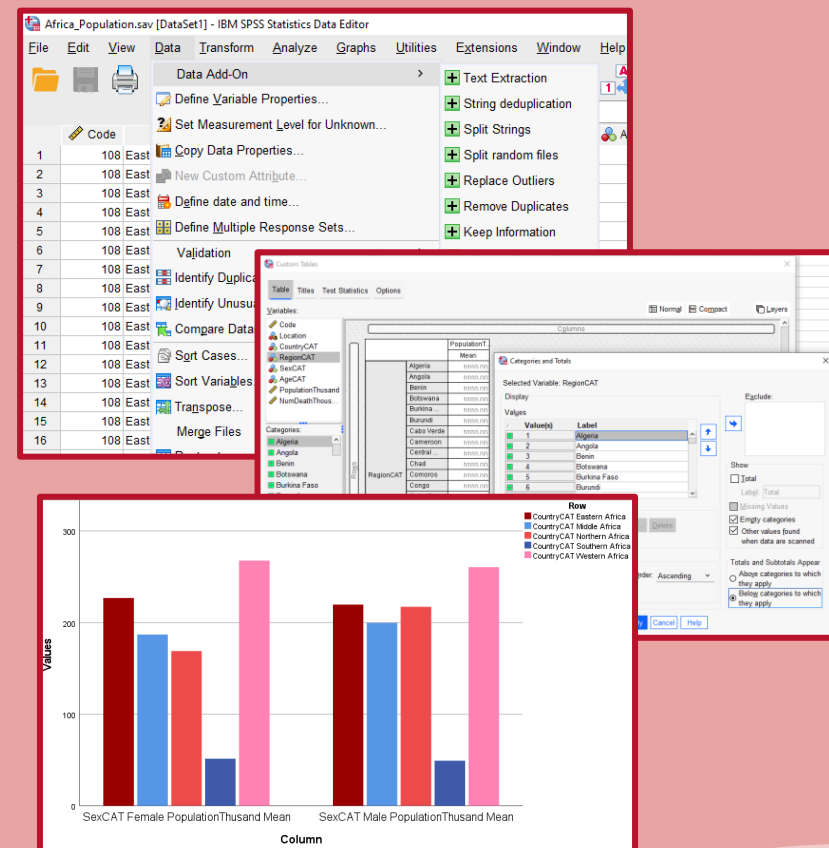
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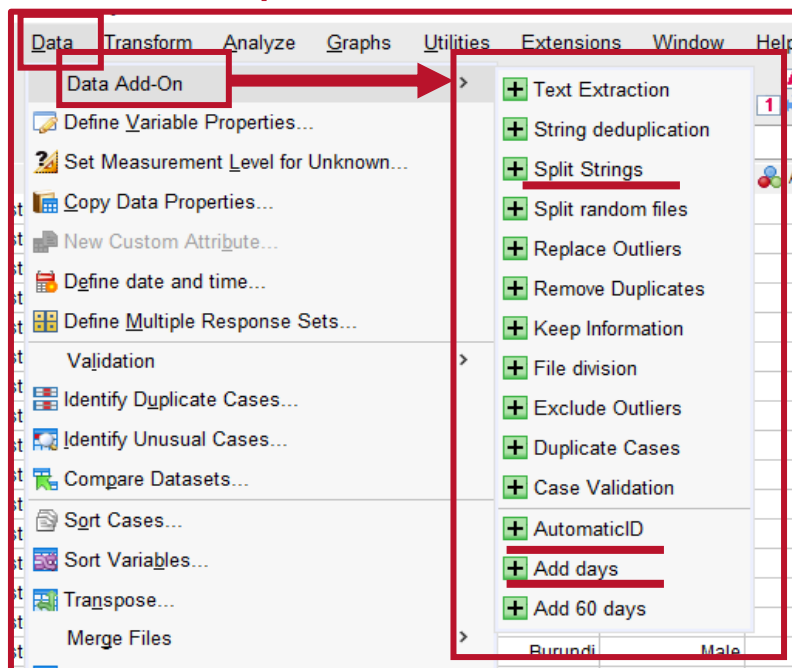
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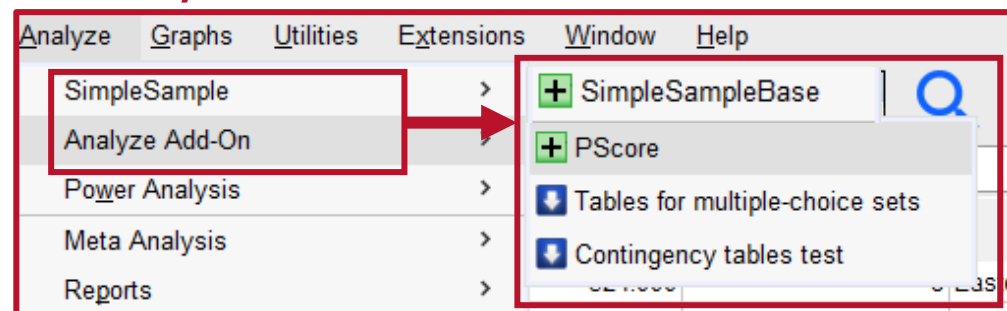


- Add-Ons are **additional functionalities** or **shortcuts** included in the **Statistics for Data Analysis** solution.
- Add-Ons are designed and created by SPS team with the constant collaboration with our customer.
- Add-Ons have the aims of:
 - Providing you with a single tool to work with
 - Keeping the graphical interface intuitive
 - Integrating procedures to **facilitate** and **automate** your analysis activities

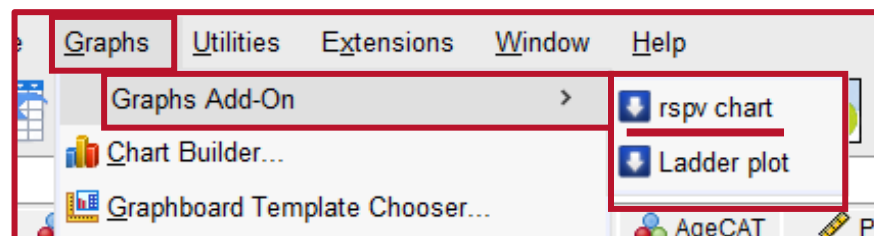
Data Preparation Add-On



Analyze Add-On



Graphs Add-On



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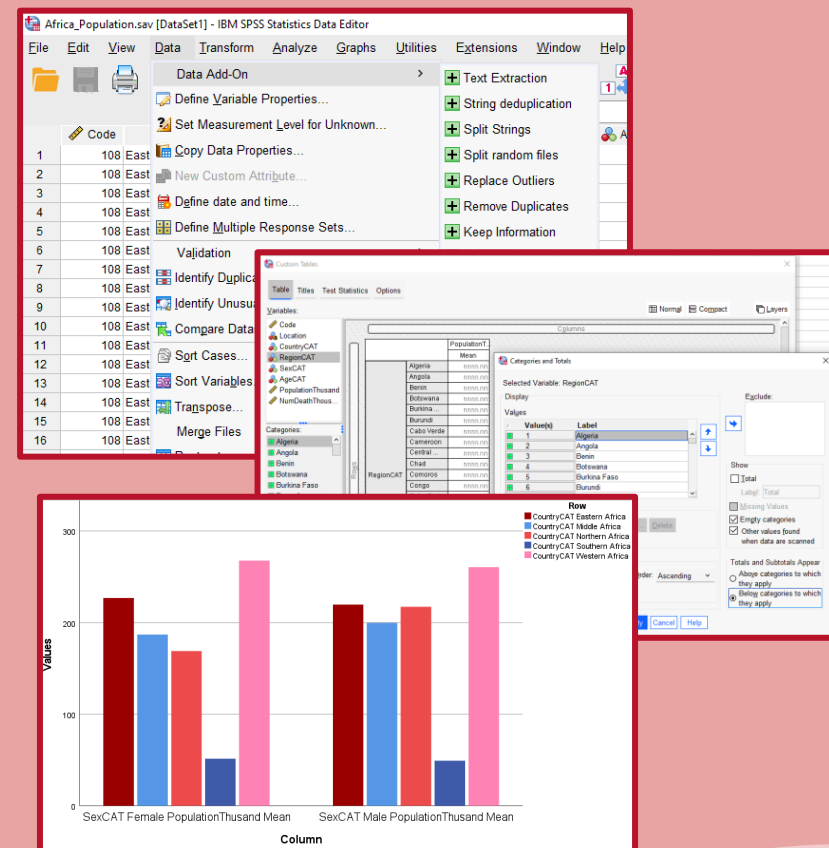
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In a few minutes we import an Excel file.

Read Excel File

C:\Users\elisa.falchieri\Desktop\MaterialeWebinarEng\Data\DGM.xlsx

Worksheet: DIET [B2:H25]

Range: B5:E25

☒ Read variable names from first row of data

☒ Percentage of values that determine data type: 95

☒ Ignore hidden rows and columns

☐ Remove leading spaces from string values

☐ Remove trailing spaces from string values

Preview

	ResultoftheBdiettest	V2	V3	V4
1	Blood pressure before ...			
2				
3	Sex			
4	Male	03/15...	161	144
5	Female	03/15...	162	142
6	Male	03/15...	169	156
7	Male	03/15...	185	163

Final data type is based on all data and can be different from the preview, which is based on the first 200 data rows. The preview displays only the first 500 columns.

OK Paste Reset Cancel Help

ID	Sex	DateBefore Diet	Bloodpress urebefore	Booldpress ureafter	DataAfter et
1	Male			144	13-Jun-202
2	Female			142	13-Jun-202
3	Male			156	13-Jun-202
4	Male			163	13-Jun-202
5	Male	15-Mar-2021	169	150	13-Jun-202
6	Male	15-Mar-2021	166	142	13-Jun-202
7	Female	15-Mar-2021	160	141	13-Jun-202
8	Male	15-Mar-2021	156	141	13-Jun-202
9	Male	15-Mar-2021	180	150	13-Jun-202
10	Female	15-Mar-2021	160	145	13-Jun-202
11	Male	15-Mar-2021	174	148	13-Jun-202
12	Female	15-Mar-2021	165	140	13-Jun-202
13	Female	15-Mar-2021		140	13-Jun-202
14	Female	15-Mar-2021			13-Jun-202
15	Female	15-Mar-2021		138	13-Jun-202
16	Female	15-Mar-2021	150	141	13-Jun-202
17	Male	15-Mar-2021	174	144	13-Jun-202
18	Male	15-Mar-2021	165	142	13-Jun-202
19	Female	15-Mar-2021	163	144	13-Jun-202
20	Male	15-Mar-2021	161	147	13-Jun-202

Automatic ID Add-On is one-step procedure. ID variable is significant for several analysis, but also for data management like restructure file.

Add Day Add-On is another one-step procedure for adding days to a date.

Text Import Wizard - Step 2 of 6

How are your variables arranged?

☒ Delimited - Variables are delimited by a specific character (i.e., comma, tab).

☐ Fixed width - Variables are aligned in fixed width columns.

Are variable names included at the top of your file?

☒ Yes

Line number that contains variable names: 1

☐ No

What is the decimal symbol?

☒ Period

☐ Comma

Text file: C:\Users\elisa.falchieri\Desktop\MaterialeWeb

0 10 20 30

Name	Code	Location	Sex	Age

< Back Next > Finish Cancel

Text Import Wizard - Delimited Step 4 of 6

Which delimiters appear between variables

☒ Tab ☐ Space

☐ Comma ☐ Semicolon

☐ Other:

Leading and Trailing Spaces

☐ Remove leading spaces from string variables

☐ Remove trailing spaces from string variables

Data preview

Code	Location	Sex
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female
108	Eastern Africa...	Female

< Back Next > Finish Cancel Help

Text Import Wizard - Step 5 of 6

Specifications for variable(s) selected in the data preview

Variable name: PopulationThousand Original name: PopulationThousand

Data format: Numeric

Percentage of values that determine Automatic data format 95

Data preview

Code	Location	Sex	Age	Populatio...	NumDeat...
108	Eastern A...	Female	20-24	524	8
108	Eastern A...	Female	25-29	498	10
108	Eastern A...	Female	30-34	442	11
108	Eastern A...	Female	35-39	335	10
108	Eastern A...	Female	40-44	227	7
108	Eastern A...	Female	45-49	158	6
108	Eastern A...	Female	50-54	140	6
108	Eastern A...	Female	55-59	124	8
108	Eastern A...	Female	60-64	108	10

< Back Next > Finish Cancel Help

In a few steps
we can import
a text file

 Location
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Burundi
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Comoros
Eastern Africa-Djibouti
Eastern Africa-Djibouti
Eastern Africa-Djibouti
Eastern Africa-Djibouti

Split String Add-On is one-step procedure for breaking down a variable into several parts .

Split Strings

Variables:

Sort:

- Code
- Sex
- Age
- PopulationThousand
- NumDeathThousand
- Country
- Region
- testo_rimanente

String variable to split:

Location

Enter the field split character:

-

Number of output variables:

2

Length of output variables:

50

Run Paste Reset Cancel

 Country	 Region
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Burundi
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Comoros
Eastern Africa	Djibouti
Eastern Africa	Djibouti
Eastern Africa	Djibouti

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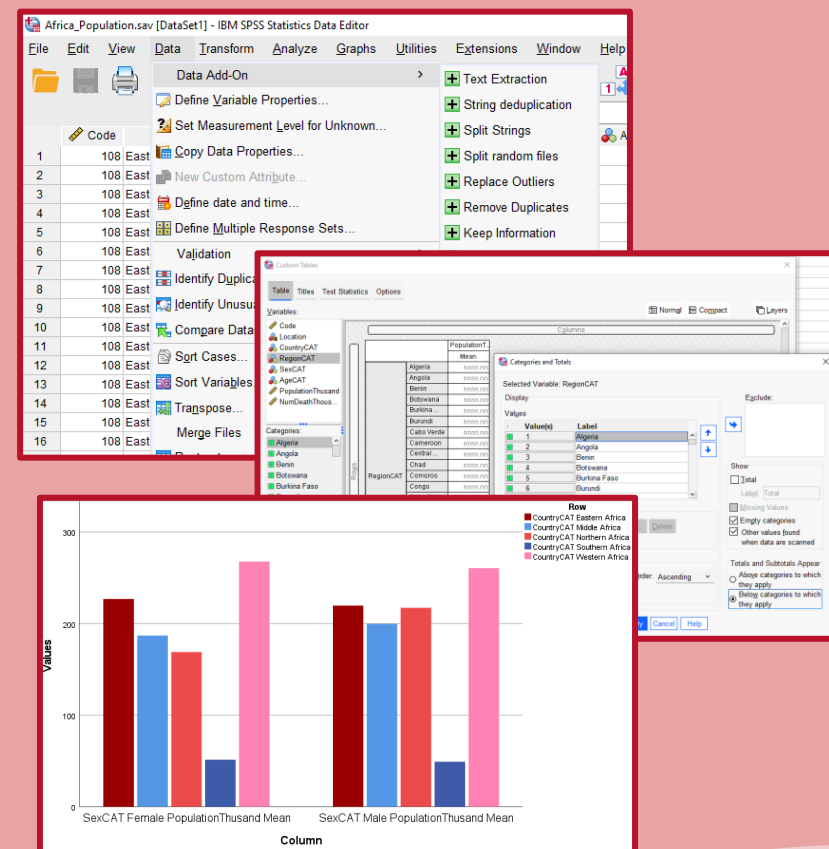
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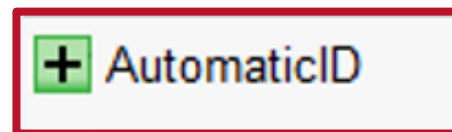
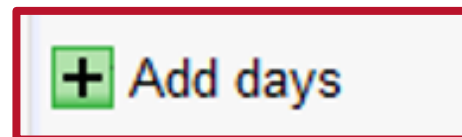
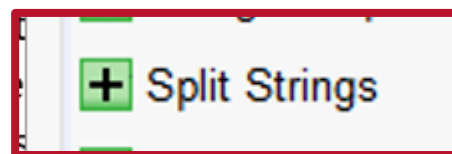
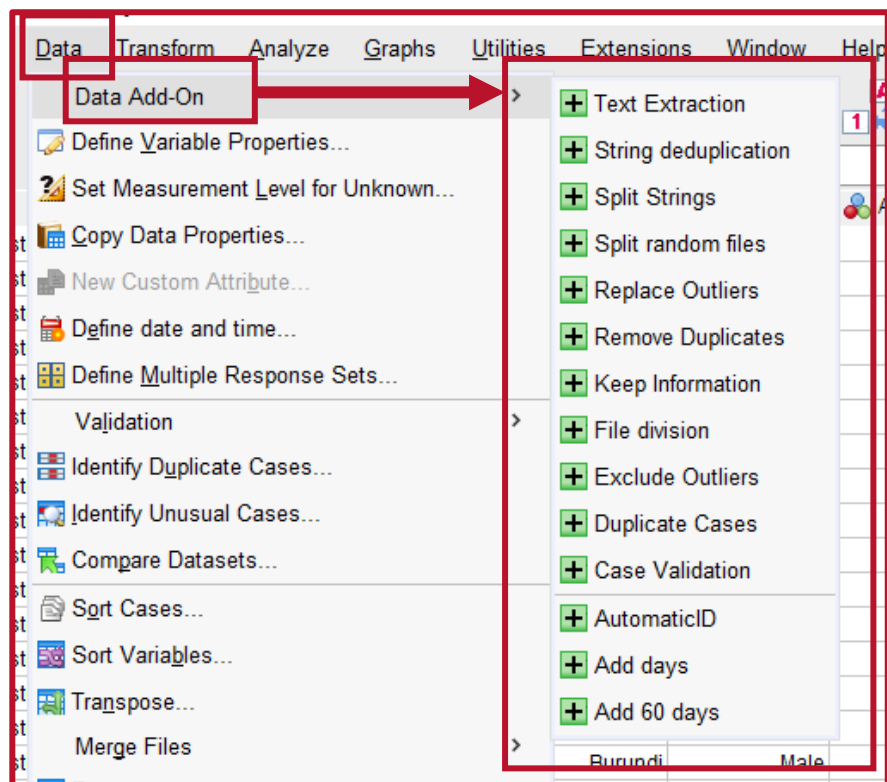
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Data scientists usually spend around 80% of their time on preparing and managing data for analysis. This is the reason because most of **SPS Add-On** are in Data Menu: they have the aim to **automate** and **speed up** this phase.



Data Preparation phase is one of the most labor-intensive phases when conducting a statistical analysis project. In fact, it usually takes away 70-80% of the time required to conduct an entire analysis

The screenshot shows the SPSS Data Editor window with the 'Transform' menu open. The 'Automatic Recode...' option is highlighted. The 'Automatic Recode' dialog box is displayed, showing a list of variables on the left: Code, Location, PopulationThousand, and NumDeathThousand. On the right, under 'Variable-> New Name', the following mappings are shown: Country-->CountryCAT, Region-->RegioneCAT, Sex-->SexCAT, and Age-->AgeCAT. The 'New Name' field is set to 'AgeCAT'. The 'Recode Starting from' section has 'Lowest value' selected. There are checkboxes for 'Use the same recoding scheme for all variables' and 'Treat blank string values as user-missing'. A 'Template' section has checkboxes for 'Apply template from:' and 'Save template as:'. The 'OK' button is highlighted.

The screenshot shows the SPSS Data Editor window with the 'Visual Binning' dialog box open. The 'Scanned Variable List' shows 'PopulationThousand'. The 'Current Variable' is 'PopulationThousand' and the 'Binned Variable' is 'PopulationThousand (Binned)'. The 'Minimum' is 1.002 and the 'Maximum' is 999.000. A histogram is displayed showing the distribution of the variable. Below the histogram, there is a table with columns 'Value' and 'Label'. The table contains the following data:

Value	Label
12.0000	low
94.0000	middlelow
334.5000	middle high
HIGH	high

The 'Grid' section shows the upper endpoints for the bins. The 'Cases Scanned' is 912 and 'Missing Values' is 0. The 'Copy Bins' section has 'From Another Variable...' and 'To Other Variables...' buttons. The 'OK' button is highlighted.

FileEditViewDataTransformAnalyzeGraphsUtilitiesExtensionsWindowHelp



	 Code	 Location	 CountryCAT	 RegionCAT	 SexCAT	 AgeCAT	 PopulationThousand	 NumDeathThousand
1	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	20-24	524.00	8.00
2	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	25-29	498.00	10.00
3	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	30-34	442.00	11.00
4	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	35-39	335.00	10.00
5	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	40-44	227.00	7.00
6	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	45-49	158.00	6.00
7	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	50-54	140.00	6.00
8	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Female	55-59	124.00	8.00
9	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	20-24	519.00	12.00
10	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	25-29	489.00	12.00
11	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	30-34	433.00	12.00
12	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	35-39	329.00	11.00
13	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	40-44	219.00	8.00
14	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	45-49	143.00	7.00
15	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	50-54	120.00	8.00
16	108	Eastern Africa-Burundi	Eastern Africa	Burundi	Male	55-59	109.00	9.00
17	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	20-24	39.00	.00
18	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	25-29	35.00	.00
19	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	30-34	31.00	.00
20	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	35-39	27.00	.00
21	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	40-44	21.00	.00
22	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	45-49	17.00	.00
23	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	50-54	14.00	1.00
24	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Female	55-59	12.00	1.00
25	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Male	20-24	40.00	1.00
26	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Male	25-29	36.00	.00
27	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Male	30-34	32.00	.00
28	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Male	35-39	27.00	.00
29	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Male	40-44	21.00	1.00
30	174	Eastern Africa-Comoros	Eastern Africa	Comoros	Male	45-49	17.00	1.00

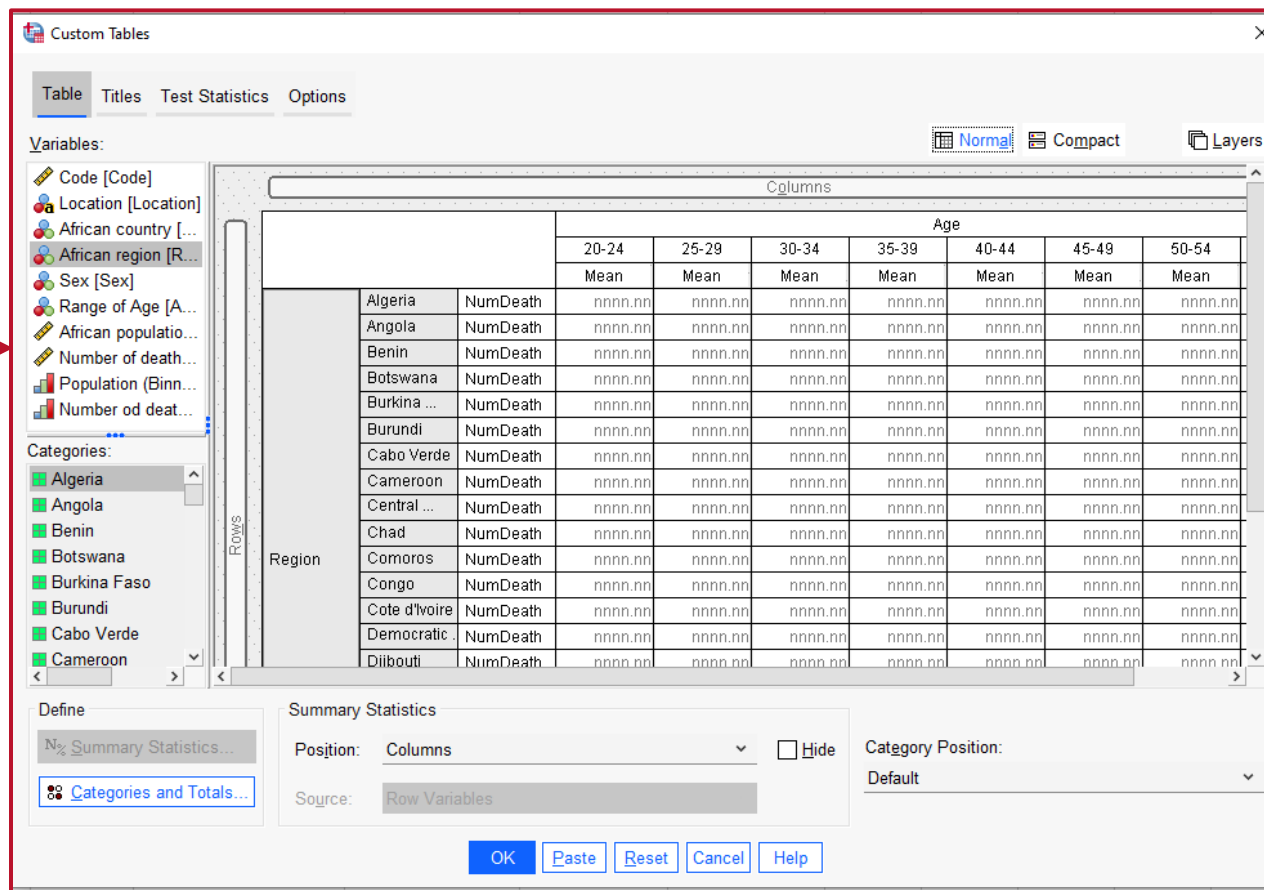
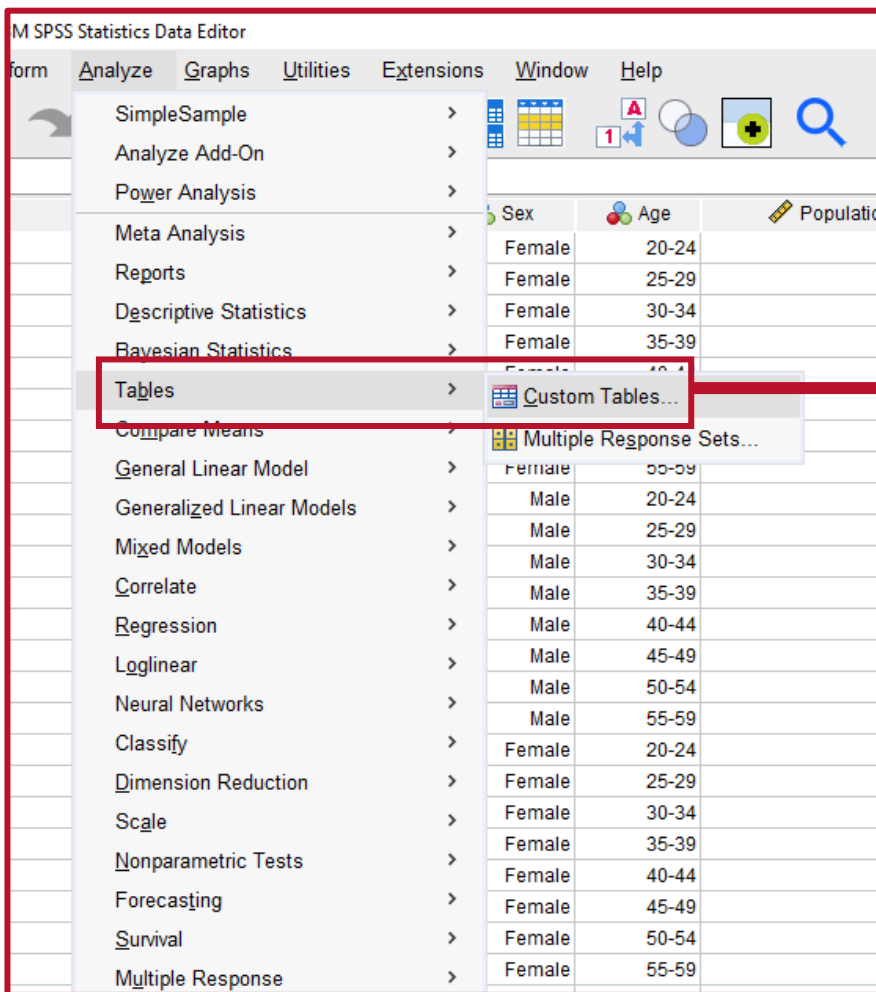
The data in this example are
been downloaded by the web
site:

United Nation – Departement of
Economic and Social Affairs

<https://population.un.org/wpp/>

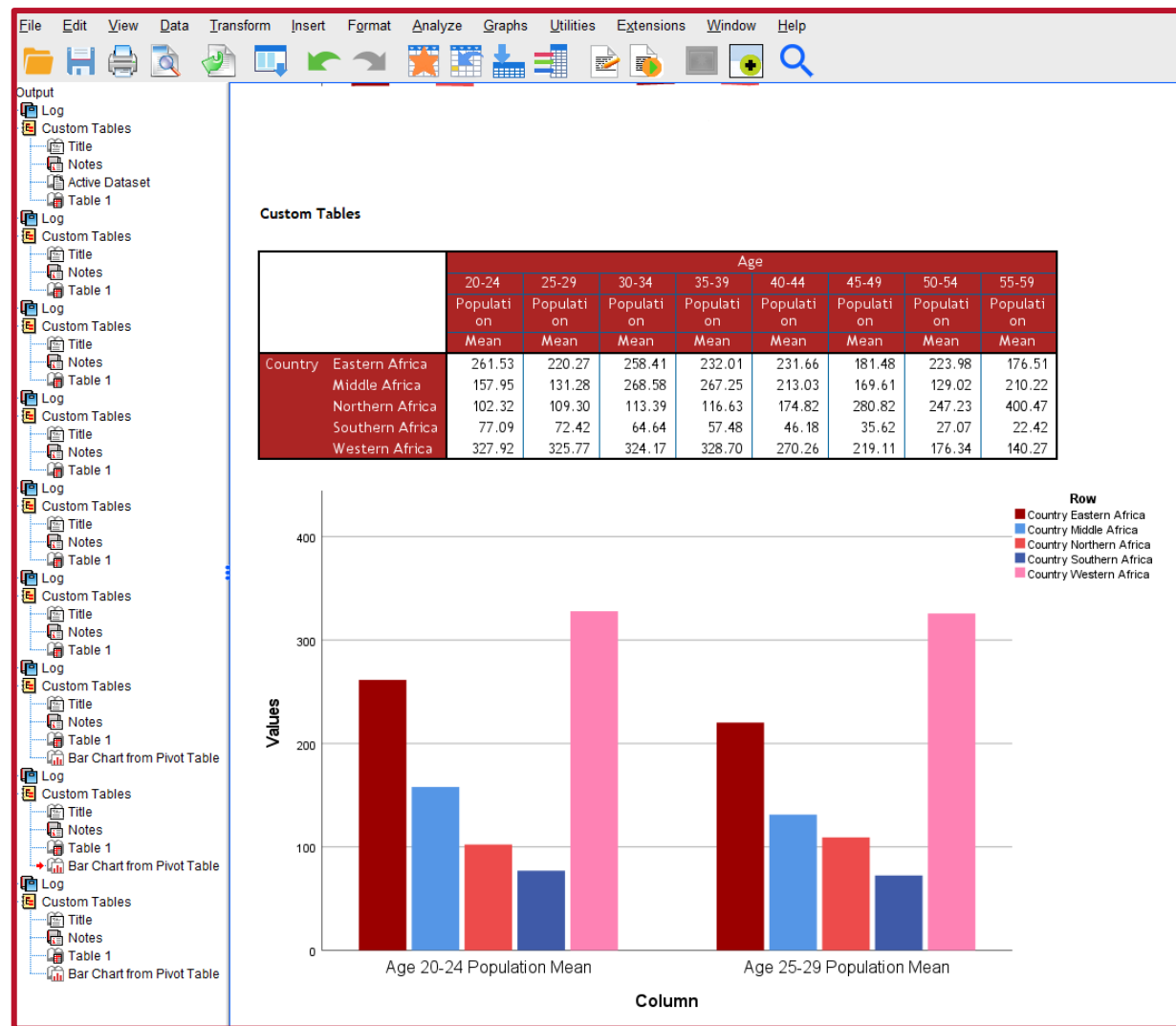
All statistical analysis are in Analyze Menu.

We focus on Custom Tables, with whom we can draw pivot table.



The Output displays the data objects, such as tables and charts.

In the right pane there is an output outline that is mostly used for navigating through output items.



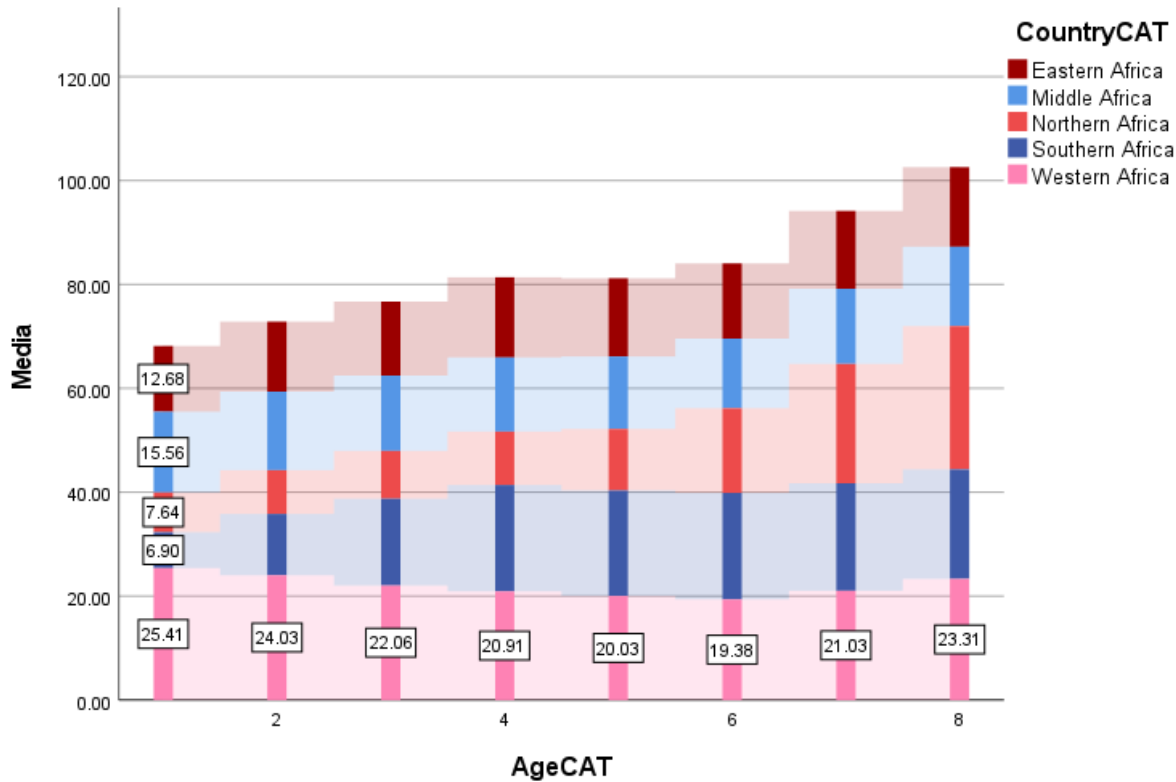
RSVP Chart Add-On is a bar graph with a graphic element that allow us to display the bar-on-bar variation.

In one step, RSVP Chart Add-On show all values inside a table in a graphic mode.

Custom Tables

			AgeCAT							
			20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
			Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
CountryCAT	Eastern Africa	NumDeathThous and	12.68	13.48	14.23	15.43	15.08	14.48	14.98	15.33
	Middle Africa	NumDeathThous and	15.56	15.11	14.50	14.28	13.94	13.44	14.44	15.28
	Northern Africa	NumDeathThous and	7.64	8.43	9.21	10.29	11.86	16.29	23.00	27.57
	Southern Africa	NumDeathThous and	6.90	11.80	16.70	20.50	20.30	20.50	20.70	21.10
	Western Africa	NumDeathThous and	25.41	24.03	22.06	20.91	20.03	19.38	21.03	23.31

RSVP Chart



In continuation of the development path of the Statistics for Data Analysis solution, the SPS team would extend the range of the Add-Ons, so

Contact us for any new idea

@Conclusion

CRISTINA CARINI
Sales Team @SPS

