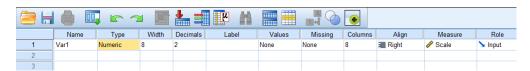
SPSS Report

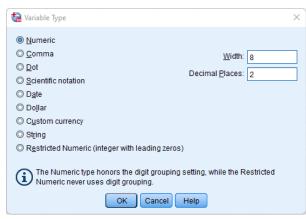
[27/8/2021]

Variable View



Name - Name of the variable.

Type - The types of values the variable can take.



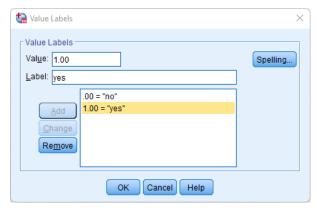
Variable type selector popup window

Width - Specifies the column width for the display of variables in the Data Editor.

Decimals - No. of decimal places permitted by the variable.

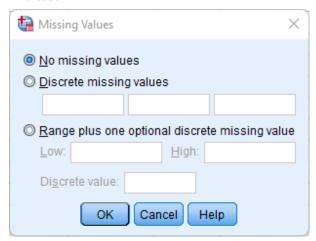
Label - Description for the variable.

Values - Values which can be taken by the variable.



Value editor window

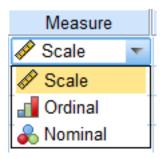
Missing - Specify what is to be entered for a value that is missing for a variable in a case.



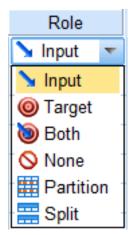
 $Missing\ values\ editor$

Align - Alignment of the values in the cell of the Data Editor view.

Measure - SPSS measurement levels are limited to nominal (i.e. categorical), ordinal(i.e. ordered like 1st, 2nd, 3rd...), or scale. Essentially, a scale variable is a measurement variable.



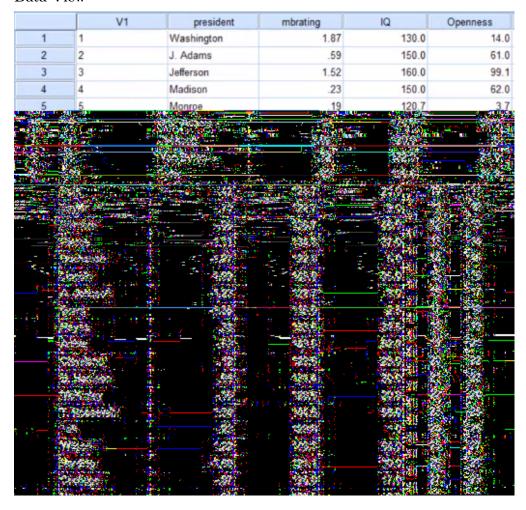
Role - Specifies the variable's role in analysis.



Variable View



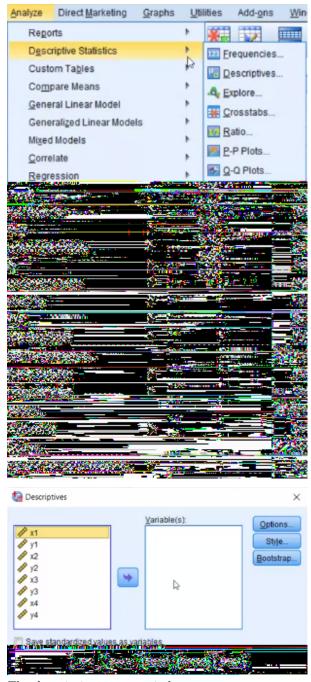
Data View



[1/9/2021]

Descreptive Analysis

The Descriptives menu lies under Analyze \longrightarrow Descriptive Statistics \longrightarrow Descriptives...

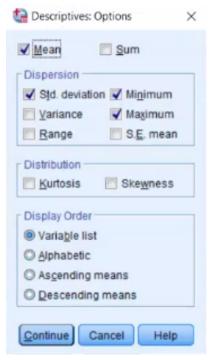


 $The\ descriptives\ popup\ window$

Once the window is open, select the variables you want to perform the analysis on and click the arrow in the middle to move them to the variables side.



The descriptives window after moving the variables

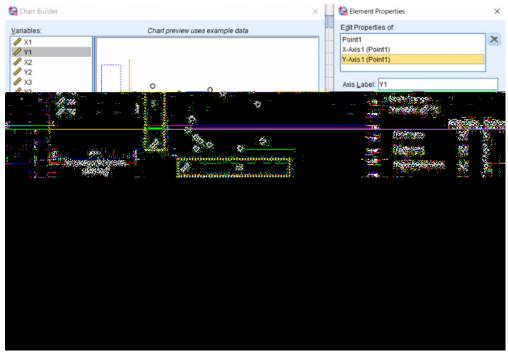


 $Options\ available\ for\ descriptive\ analysis$

Chart Builder

To build a graph, ${\tt Chart}$ ${\tt Builder}$ is used which is available under ${\tt Graphs} \longrightarrow {\tt Chart}$ ${\tt Builder}$





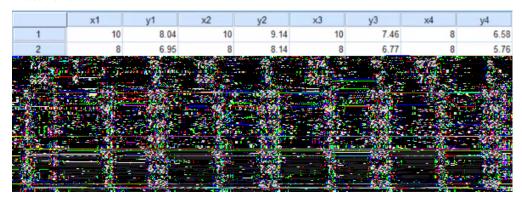
 $Chart\ Builder\ Window$

Variables - A list of variables which can be used to build the graph.

Gallery - Types of plots for the user to choose from.

 ${\tt Element~Properties}$ - This window allows the variables to be modified in the graph.

Data View



Output View

Descriptives

[DataSetl] C:\Users\Abhirup Moitra\Pictures\anscombe.sav

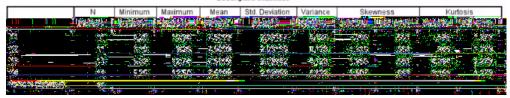
Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation	Variance	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
X1	11	4.00	14.00	9.0000	3.31662	11.000	.000	.661	-1.200	1.279
X2	11	4.00	14.00	9.0000	3.31662	11.000	.000	.661	-1.200	1.279
Х3	11	4.00	14.00	9.0000	3.31662	11.000	.000	.661	-1.200	1.279
X4	11	8.00	19.00	9.0000	3.31662	11.000	3.317	.661	11.000	1.279
Valid N (listwise)	11									

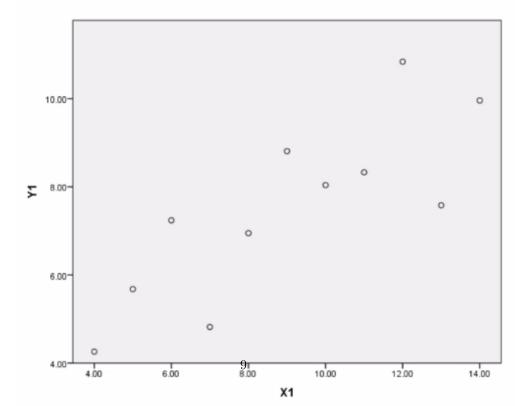
DESCRIPTIVES VARIABLES=Y1 Y2 Y3 Y4 /STATISTICS=MEAN STDDEV VARIANCE MIN MAX KURTOSIS SKEWNESS.

Descriptives

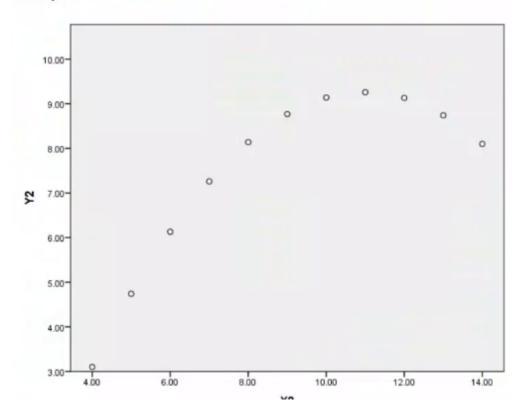
Descriptive Statistics



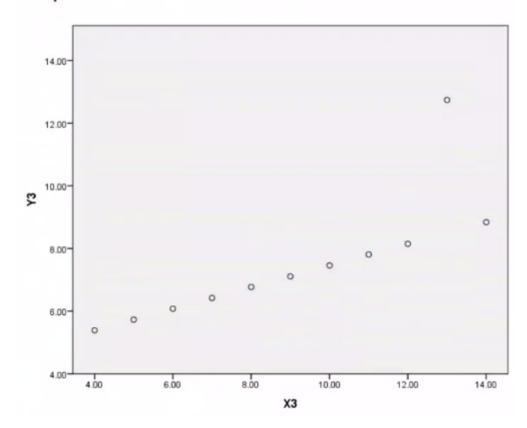
GGraph



GGraph



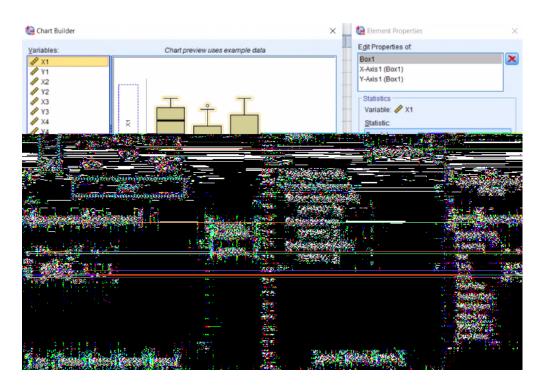
GGraph



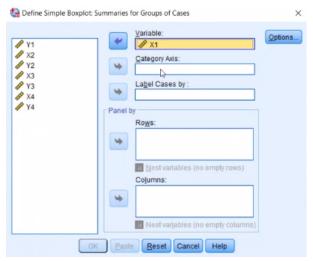
 $\left[3/9/2021\right]$

Outlier Detection with Boxplots

The Boxplot option is available in Chart Builder under Gallery



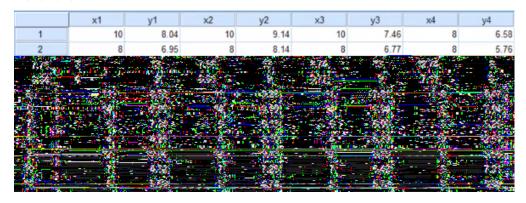
 $\mathbf{Alternate} \ \mathbf{Method} \quad \mathtt{Graphs} \longrightarrow \mathtt{Legacy} \ \mathtt{Dialogs} \longrightarrow \mathtt{Boxplot}$



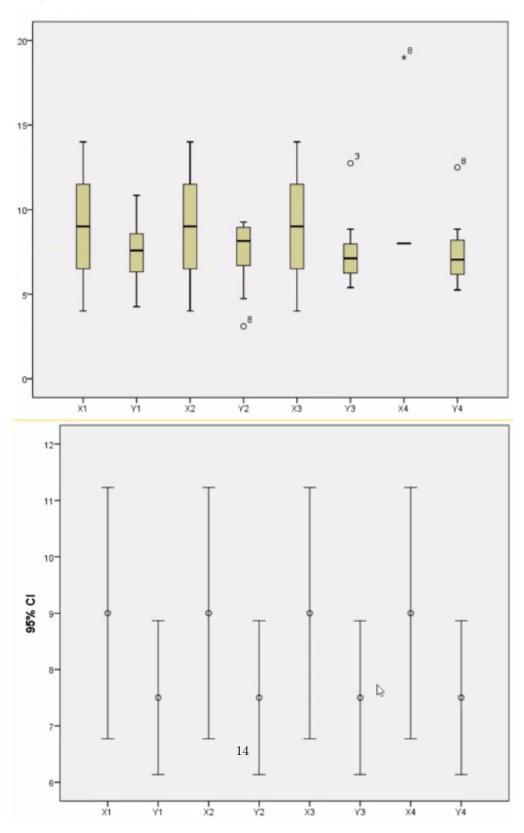
Legacy Boxplot window

Panel by - Separates into different boxes based on variables in this option

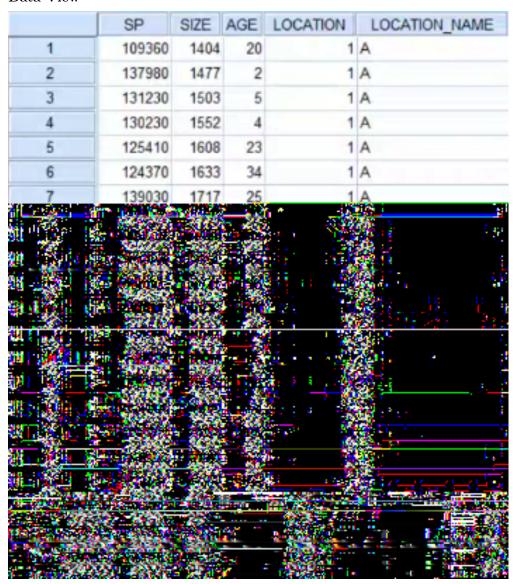
Data View



Output View



Data View

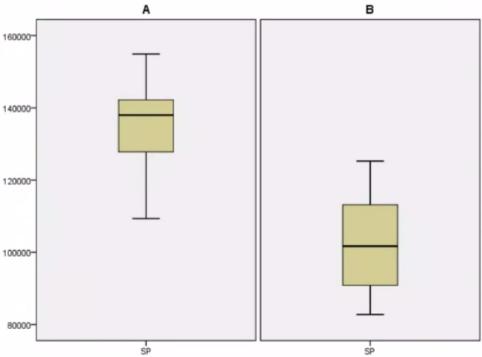


Boxplot Window



Output View

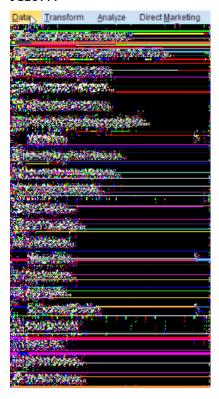
LOCATION_NAME



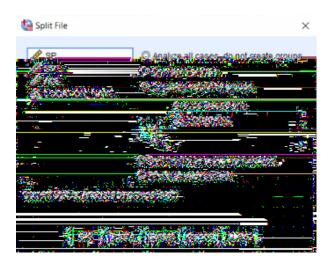
[8/9/2021]

Splitting Files into Groups

To split the data w.r.t some variable, we use Split File under Data— \rightarrow Split File...



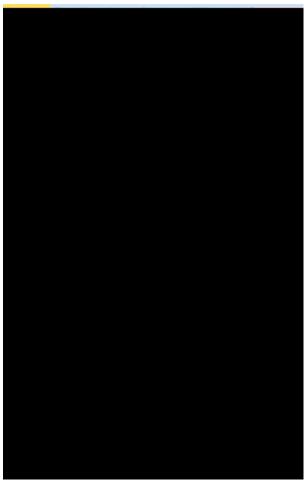
To split the file based on a variable, the variables must be in the ${\tt Group}\,\,{\tt Based}$ on: dialogue.

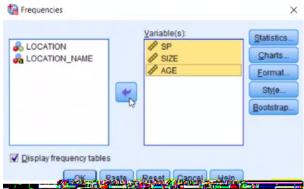


Frequencies for Descriptive Statistics

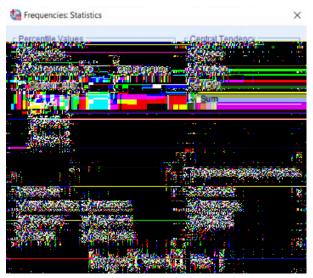
To display the descriptive statistics of a dataset in a vertical tabular form, an alternative method exists i.e. by using the Frequencies... dialogue.

 $The \, \texttt{Frequencies} \, \, window \, is \, under \, \texttt{Analyze} \longrightarrow \texttt{Descriptive} \, \, \, \texttt{Statistics} \longrightarrow \texttt{Frequencies} \dots$





 $Variable\ selector\ window$



 $Stats\ selector\ window$