SPSS Report

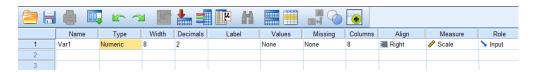
Safalya Pal

A90555919003 Sem-5

SPSS Report

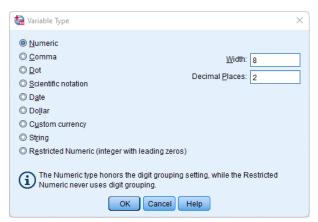
[27/8/2021]

Variable View



Name - Name of the variable.

Type - The types of values the variable can take.



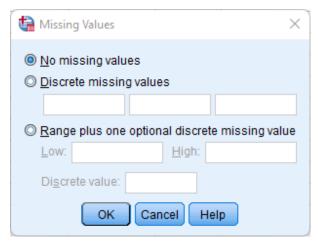
 $Variable\ type\ selector\ popup\ window$

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.

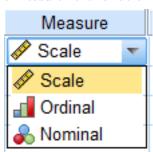
Values - Values which can be taken by the variable.



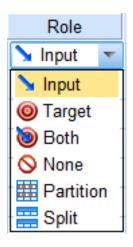
 $Missing\ values\ editor$

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.

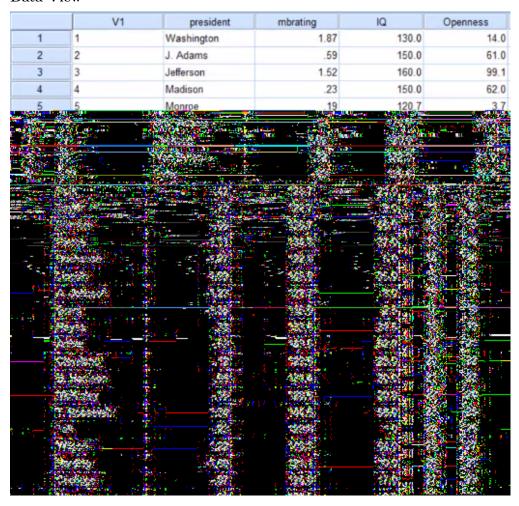


Role - Specifies the variable's role in analysis.





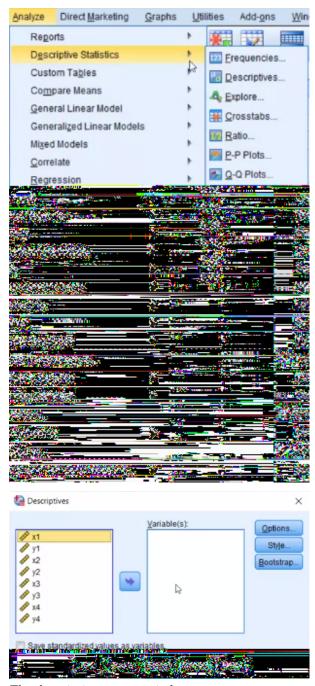
Data View



[1/9/2021]

Descreptive Analysis

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

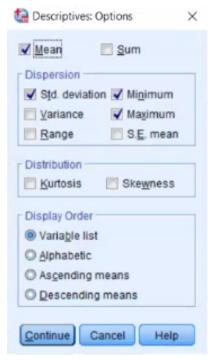


 $The\ descriptives\ popup\ window$

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, Chart Builder is used which is available under ${\tt Graphs} \longrightarrow {\tt Chart}$ Builder



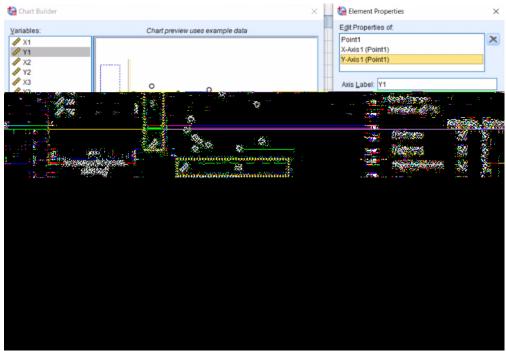


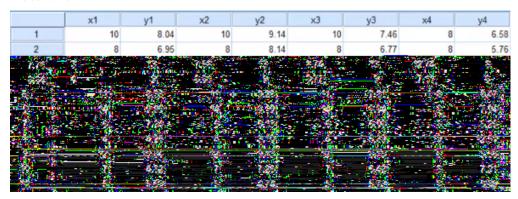
Chart Builder Window

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

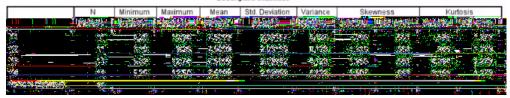
Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation	Variance	Skew	ness	Kurt	osis
	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									

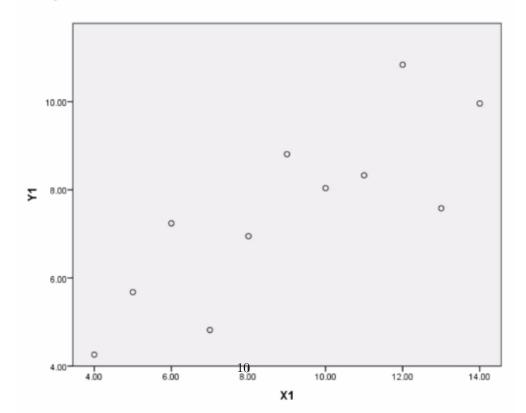
DESCRIPTIVES VARIABLES=Y1 Y2 Y3 Y4 /STATISTICS=MEAN STDDEV VARIANCE MIN MAX KURTOSIS SKEWNESS.

Descriptives

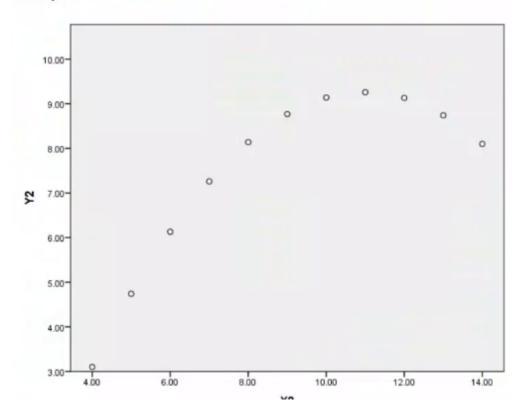
Descriptive Statistics



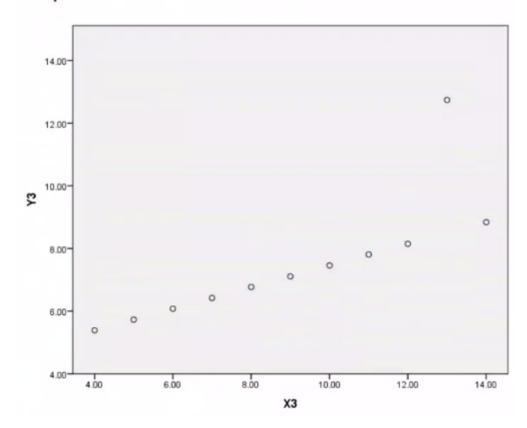
GGraph



GGraph



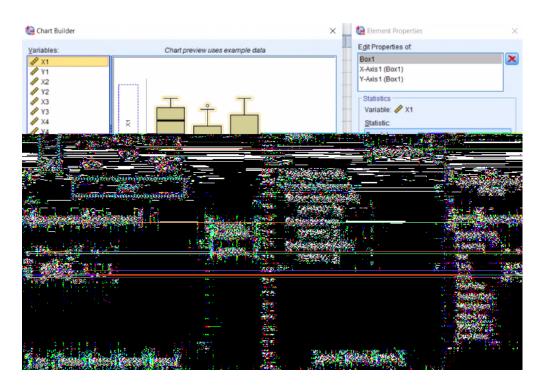
GGraph



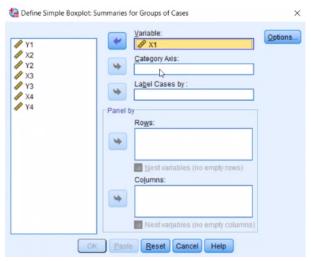
 $\left[3/9/2021\right]$

Outlier Detection with Boxplots

The Boxplot option is available in Chart Builder under Gallery



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

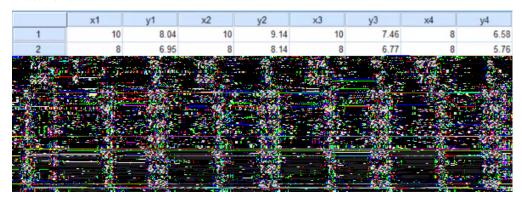


Legacy Boxplot window

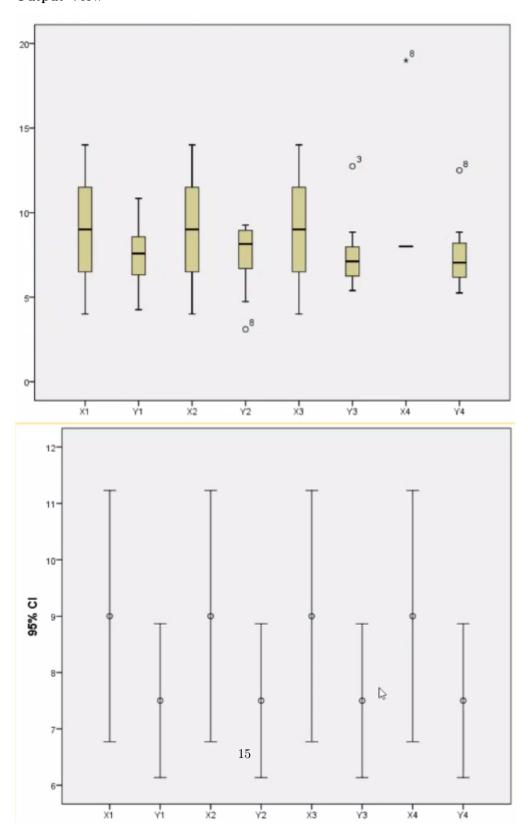
Panel by - Separates into different boxes based on variables in this option

Classwork 1

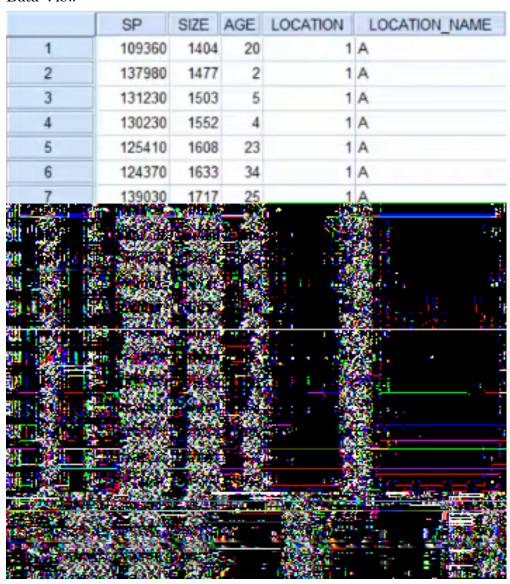
Data View



Output View



Data View

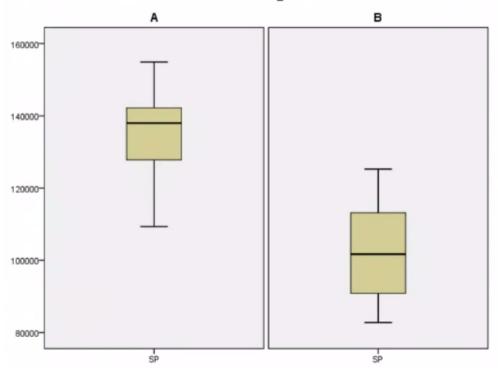


Boxplot Window



Output View

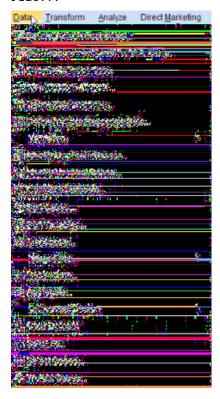
LOCATION_NAME



[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...



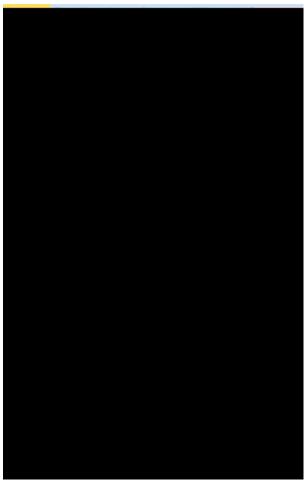
To split the file based on a variable, the variables must be in the ${\tt Group}\,\,{\tt Based}$ on: dialogue.

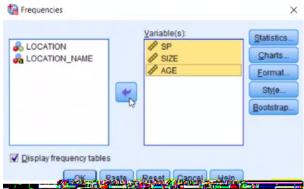


Frequencies for Descriptive Statistics

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 Frequencies window is under Analyze \longrightarrow Descriptive Statistics \longrightarrow Frequencies...





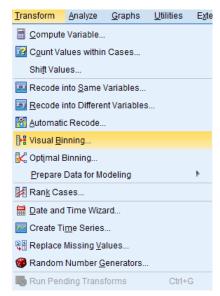
 $Variable\ selector\ window$

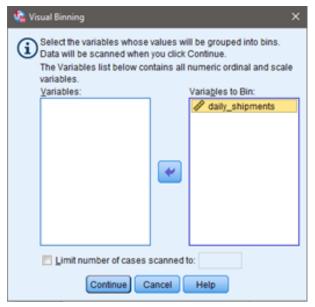


 $Stats\ selector\ window$

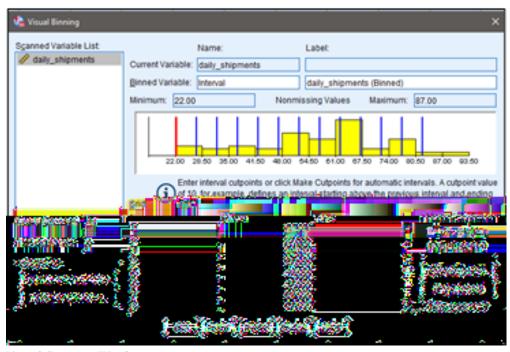
Visual Binning

To create class intervals for continous data, we use the $Visual\ Binning\ dialogue\ under\ Transform\longrightarrow Visual\ Binning$



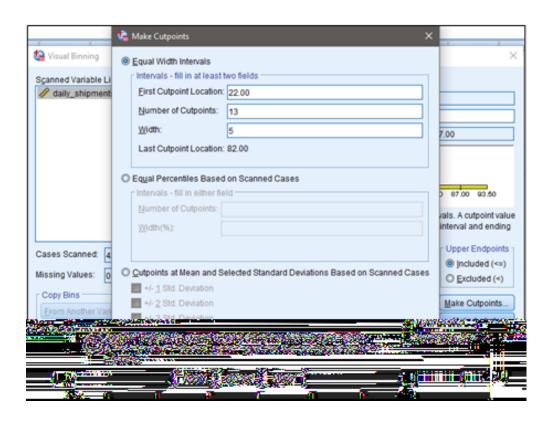


 $Variable\ Selector\ Window$



Visual Binning Window

To specify the cutpoint properties, use the Make Cutpoint options

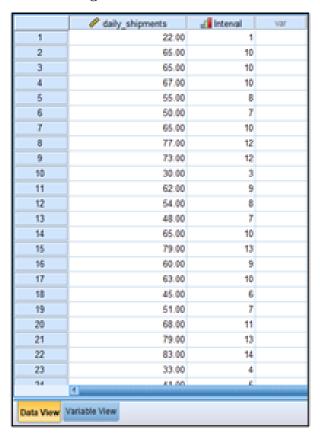




Data View

	daily_shipments	var
1	22.00	
2	65.00	
3	65.00	
4	67.00	
5	55.00	
6	50.00	
7	65.00	
8	77.00	
9	73.00	
10	30.00	
11	62.00	
12	54.00	
13	48.00	
14	65.00	
15	79.00	
16	60.00	
17	63.00	
18	45.00	
19	51.00	
20	68.00	
21	79.00	
22	83.00	
23	33.00	
24	41.00	
Data View	/ariable View	

Post Binning Data View

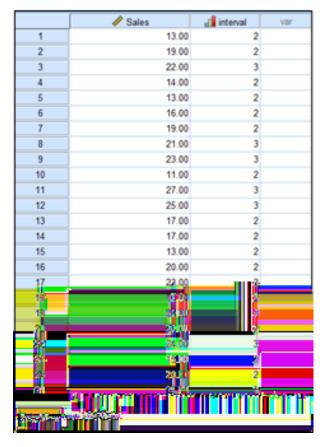




Data View

		Var
1	13.00	
2	19.00	
3	22.00	
4	14.00	
5	13.00	
6	16.00	
7	19.00	
8	21.00	
9	23.00	
10	11.00	
11	27.00	
12	25.00	
13	17.00	
14	17,00	
15	19300	
	200	
	23 (1)	
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	25,00	
201	29,00	
	26.90	
A 100	16.00	
239	29.99	
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Harris III Martin Santa Mi		
STATEM.		

Post Binning Data View



 $\left[10/9/2021\right]$

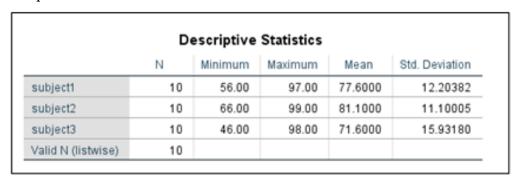
Classwork 1



Data View

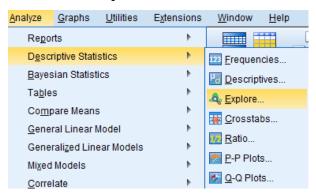
		🖧 name			
1	1	Aditi	89.00	87.00	78.00
2	2	Anushka	56.00	76.00	98.00
3	3	Ritika	78.00	75.00	89.00
4	4	Rishika	67.00	88.00	76.00
5	5	Aish	75.00	99.00	56.00
6	6	Laxmi	67.00	79.00	56.00
7	7	Safalya	89.00	68.00	46.00
8	8	Shoumit	78.00	77.00	76.00
9	9	Abhirup	80.00	66.00	65.00
10	10	Shougata	97.00	96.00	76.00

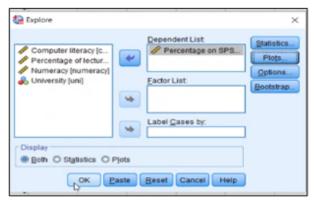
Output View



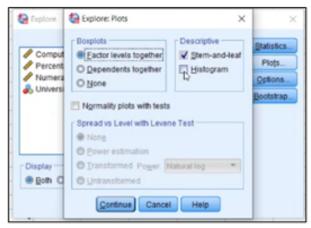
Normality Check

To check if the data is normal or not, the Explore option under Analyze \longrightarrow Descriptive Statistics \longrightarrow Explore





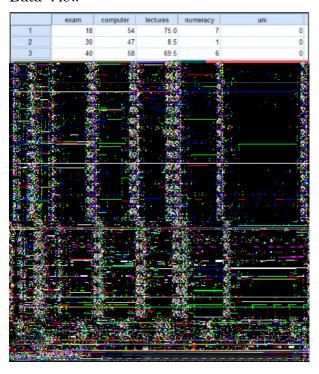
Explore Window



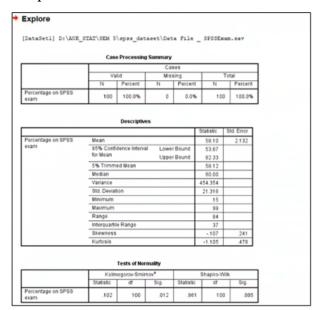
Plot Selector Window



Data View



Output View



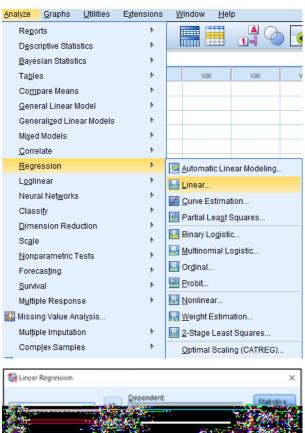
Percentage	on S	PS	S exam
Percentage on	SPSS	ex	cam Stem-and-Leaf Plot
Frequency	Stem	á	Leaf
.00	1		
2.00	1		58
2.00	2		22
5.00	2		56889
10.00	3		0011233444
8.00	3		56667889
6.00	4		000233
5.00	4		57778
4.00	5		0334
6.00	5		678899
6.00	6		000234
10.00	6		5556688999
79.00	. 1	m1	3333574 CF
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		in the	\$55.50 - \$55.50
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If the significance value is greater than 0.05 then the data is normal.

[16/9/2021]

Linear Regression

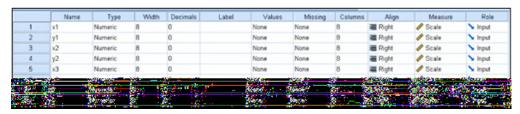
To fit a linear regresion model to your data, use the Linear Regression dialogue underAnalyze \longrightarrow Regression \longrightarrow Linear





 $Linear\ Regression\ Window$

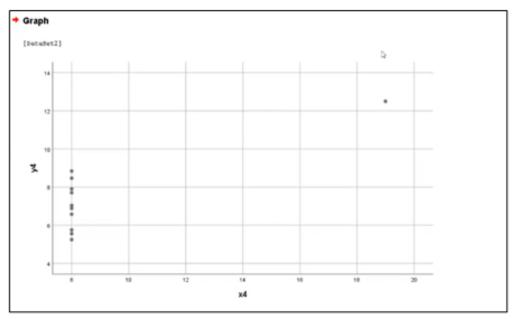
Variable View



Data View

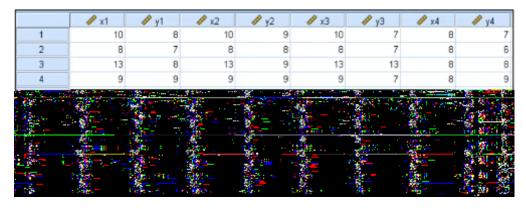
		√ y1	√ x2	√ y2	√ x3	√ y3	Ø x4	
1	10	8	10	9	10	7	8	7
2	8	7	8	8	8	7	8	6
3	13	8	13	9	13	13	8	8
4	9	9	9	9	9	7	8	9
5	11	8	11	9	11	8	8	8
6	14	10	14	8	14	9	8	7
7	6	7	6	6	6	6	8	5
8	4	4	4	3	4	5	19	13
9	12	11	12	9	12	8	8	6
10	7	5	7	7	7	6	8	8
11	5	6	5	5	5	6	8	7

Scatter Output View



The coordinate with value of Y4 > 18 is an outlier. Hence we remove that coordinate

Processed Data View



Output View

		Model S					
Model	R	R Square	Adjust Squ		Std. Error of the Estimate		
1	1.000*	1.000		1.000	.003		
a. Pr	redictors: (Cor	nstant), x3		ANOVA ⁶			
Model		Sum o Square		df	Mean Square	F	Sig.
1	Regression	11	.023	1	11.023	1160687.631	.000 ^b
٠							
	Residual		.000	8	.000		
	Total ependent Vari	11 able: y3	.000	9	.000		
	Total	11 able: y3	.023				
	Total ependent Vari	11 able: y3	.023 Coe	9 efficient			
	Total ependent Vari	11 able: y3 nstant), x3	Cod dized Co	9 efficient	sa Standardized		Sig.
b. Pr	Total ependent Vari	11 able: y3 nstantį, x3 Unstandar	Coddized Cods	g efficient	Standardized Coefficients	t 1369,808	Sig.

 $\left[20/9/2021\right]$