

Univariate Analysis of Variance

Notes

Output Created		07-MAR-2021 20:21:23
Comments		
Input	Data	D:\ELEX2020\2020-2021\Data\Input\Data 7.3.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax		UNIANOVA Observasi BY Metode Temperatur Waktu /RANDOM=Waktu /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PLOT=PROFILE(Temperatur*Metode*Waktu) TYPE=LINE ERRORBAR=NO MEANREFERENCE=YES YAXIS=AUTO /PRINT DESCRIPTIVE /CRITERIA=ALPHA(.05) /DESIGN=Metode Temperatur Waktu Metode*Temperatur Metode*Waktu Temperatur*Waktu Metode*Temperatur*Waktu.
Resources	Processor Time	00:00:00.72
	Elapsed Time	00:00:00.51

Between-Subjects Factors

		Value Label	N
Faktor A	1	1	12
	2	2	12
	3	3	12
Faktor B	1	1	9
	2	2	9
	3	3	9
	4	4	9
Blok	1	1	12
	2	2	12
	3	3	12

Descriptive Statistics

Dependent Variable: Observasi

Faktor A	Faktor B	Blok	Mean	Std. Deviation	N
1	1	1	39.00	.	1
		2	28.00	.	1
		3	31.00	.	1
		Total	32.67	5.686	3
	2	1	35.00	.	1
		2	32.00	.	1
		3	37.00	.	1
		Total	34.67	2.517	3
	3	1	37.00	.	1
		2	40.00	.	1
		3	41.00	.	1
		Total	39.33	2.082	3
	4	1	36.00	.	1
		2	41.00	.	1
		3	40.00	.	1
		Total	39.00	2.646	3
	Total	1	36.75	1.708	4
		2	35.25	6.292	4
		3	37.25	4.500	4
		Total	36.42	4.231	12
2	1	1	34.00	.	1
		2	31.00	.	1
		3	35.00	.	1
		Total	33.33	2.082	3
	2	1	41.00	.	1
		2	36.00	.	1
		3	40.00	.	1
		Total	39.00	2.646	3
	3	1	38.00	.	1
		2	42.00	.	1
		3	39.00	.	1
		Total	39.67	2.082	3
	4	1	42.00	.	1
		2	40.00	.	1
		3	44.00	.	1
		Total	42.00	2.000	3
	Total	1	38.75	3.594	4
		2	37.25	4.856	4
		3	39.50	3.697	4
		Total	38.50	3.826	12

3	1	1	29.00	.	1
		2	31.00	.	1
		3	32.00	.	1
		Total	30.67	1.528	3
	2	1	26.00	.	1
		2	30.00	.	1
		3	34.00	.	1
		Total	30.00	4.000	3
	3	1	33.00	.	1
		2	32.00	.	1
		3	39.00	.	1
		Total	34.67	3.786	3
	4	1	36.00	.	1
		2	40.00	.	1
		3	47.00	.	1
		Total	41.00	5.568	3
	Total	1	31.00	4.397	4
		2	33.25	4.573	4
		3	38.00	6.683	4
		Total	34.08	5.696	12
Total	1	1	34.00	5.000	3
		2	30.00	1.732	3
		3	32.67	2.082	3
		Total	32.22	3.346	9
	2	1	34.00	7.550	3
		2	32.67	3.055	3
		3	37.00	3.000	3
		Total	34.56	4.746	9
	3	1	36.00	2.646	3
		2	38.00	5.292	3
		3	39.67	1.155	3
		Total	37.89	3.408	9
	4	1	38.00	3.464	3
		2	40.33	.577	3
		3	43.67	3.512	3
		Total	40.67	3.500	9
	Total	1	35.50	4.622	12
		2	35.25	5.083	12
		3	38.25	4.731	12
		Total	36.33	4.876	36

Tests of Between-Subjects Effects

Dependent Variable: Observasi

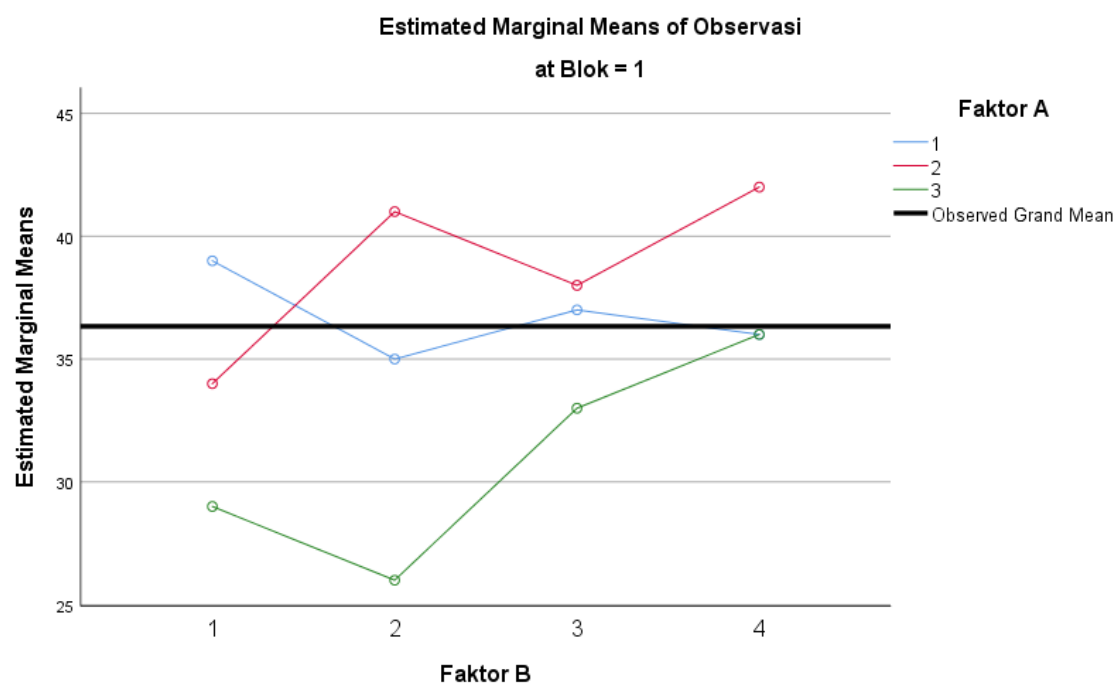
Source		Type III Sum of Squares	df	Mean Square	F	
Intercept	Hypothesis	47524.000	1	47524.000	1429.293	
	Error	66.500	2	33.250 ^a		
Metode	Hypothesis	117.167	2	58.583	4.274	
	Error	54.833	4	13.708 ^b		
Temperatur	Hypothesis	371.333	3	123.778	13.067	
	Error	56.833	6	9.472 ^c		
Waktu	Hypothesis	66.500	2	33.250	2.104	
	Error	59.406	3.759	15.806 ^d		
Metode * Temperatur	Hypothesis	76.833	6	12.806	1.736	
	Error	88.500	12	7.375 ^e		
Metode * Waktu	Hypothesis	54.833	4	13.708	1.859	
	Error	88.500	12	7.375 ^e		
Temperatur * Waktu	Hypothesis	56.833	6	9.472	1.284	
	Error	88.500	12	7.375 ^e		
Metode * Temperatur * Waktu	Hypothesis	88.500	12	7.375	.	
	Error	.000	0	. ^f		

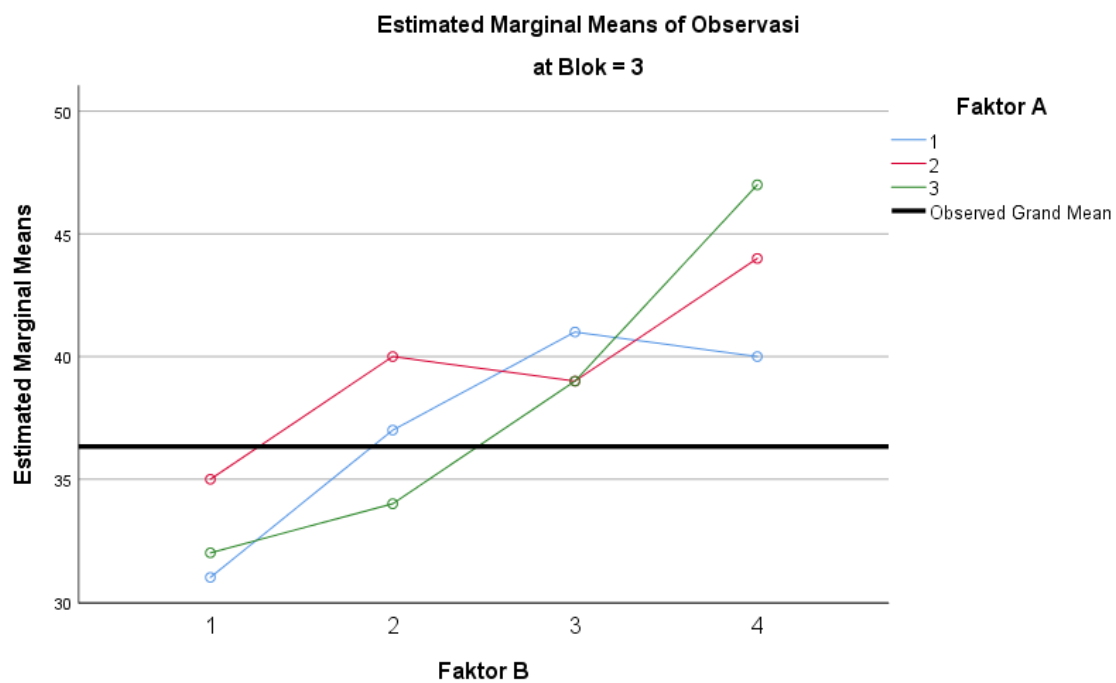
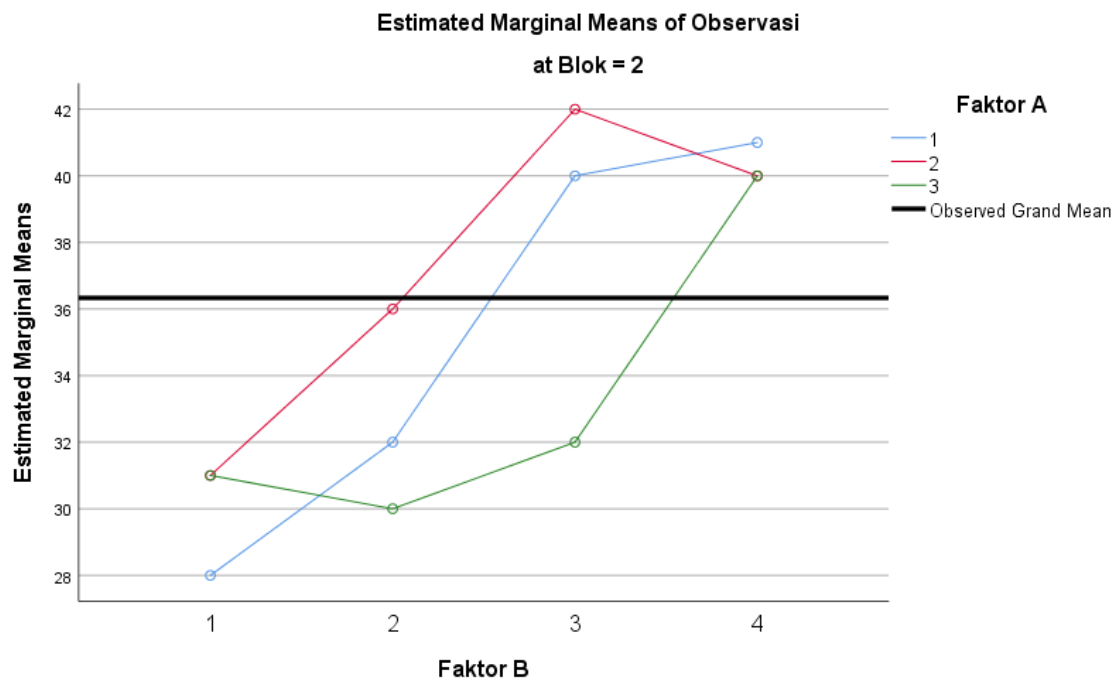
Expected Mean Squares^{a,b}

Source	Variance Component					
	Var(Waktu)	Var(Metode * Waktu)	Var(Temperatur * Waktu)	Var(Metode * Temperatur * Waktu)		
Intercept	12.000	4.000	3.000	1.000		
Metode	.000	4.000	.000	1.000		
Temperatur	.000	.000	3.000	1.000		
Waktu	12.000	4.000	3.000	1.000		
Metode * Temperatur	.000	.000	.000	1.000		
Metode * Waktu	.000	4.000	.000	1.000		
Temperatur * Waktu	.000	.000	3.000	1.000		
Metode * Temperatur * Waktu	.000	.000	.000	1.000		
Error	.000	.000	.000	.000		

Profile Plots

Faktor B * Faktor A * Blok





Explore

Notes

Output Created		13-MAR-2021 13:04:53
Comments		
Input	Data	D:\ELEX2020\2020-2021\DATA\Input\Data 7.3.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=Observasi BY Metode Temperatur /ID=Waktu /PLOT BOXPLOT STEMLEAF /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:00.59
	Elapsed Time	00:00:00.63

Faktor A

Case Processing Summary

		Valid		Cases Missing		Total	
Faktor A		N	Percent	N	Percent	N	Percent
Observasi	1	12	100.0%	0	0.0%	12	100.0%
	2	12	100.0%	0	0.0%	12	100.0%
	3	12	100.0%	0	0.0%	12	100.0%

Descriptives

Faktor A		Statistic	Std. Error
Observasi	1	Mean	36.42
		95% Confidence Interval for Lower Bound	33.73
		Mean Upper Bound	39.10
		5% Trimmed Mean	36.63
		Median	37.00
		Variance	17.902
		Std. Deviation	4.231
		Minimum	28
		Maximum	41
		Range	13
		Interquartile Range	7
		Skewness	-.781
		Kurtosis	-.335
	2	Mean	38.50
		95% Confidence Interval for Lower Bound	36.07
		Mean Upper Bound	40.93
		5% Trimmed Mean	38.61
		Median	39.50
		Variance	14.636
		Std. Deviation	3.826
		Minimum	31
		Maximum	44
		Range	13
		Interquartile Range	7
		Skewness	-.579
		Kurtosis	-.335
	3	Mean	34.08
		95% Confidence Interval for Lower Bound	30.46
		Mean Upper Bound	37.70
		5% Trimmed Mean	33.81

Median	32.50	
Variance	32.447	
Std. Deviation	5.696	
Minimum	26	
Maximum	47	
Range	21	
Interquartile Range	8	
Skewness	1.010	.637
Kurtosis	1.206	1.232

Observasi

Stem-and-Leaf Plots

Observasi Stem-and-Leaf Plot for
Metode= 1

Frequency	Stem & Leaf
1.00	2 . 8
2.00	3 . 12
5.00	3 . 56779
4.00	4 . 0011

Stem width: 10
Each leaf: 1 case(s)

Observasi Stem-and-Leaf Plot for
Metode= 2

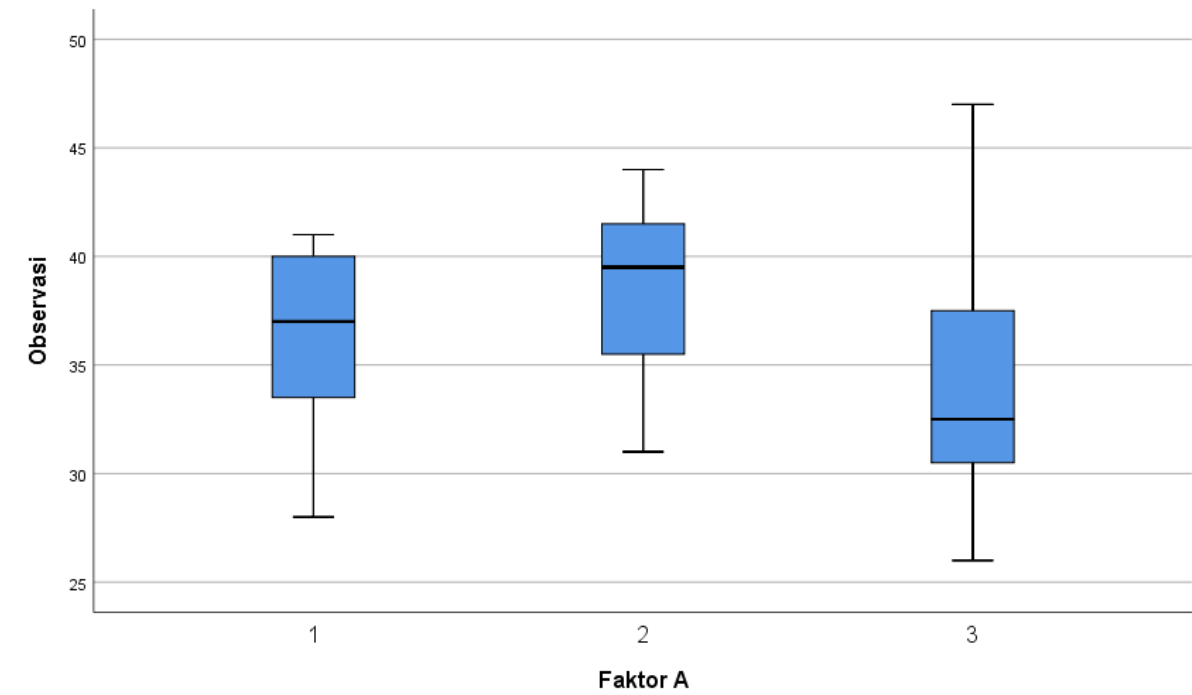
Frequency	Stem & Leaf
2.00	3 . 14
4.00	3 . 5689
6.00	4 . 001224

Stem width: 10
Each leaf: 1 case(s)

Observasi Stem-and-Leaf Plot for
Metode= 3

Frequency	Stem & Leaf
2.00	2 . 69
6.00	3 . 012234
2.00	3 . 69
1.00	4 . 0
1.00	4 . 7

Stem width: 10
Each leaf: 1 case(s)



Faktor B

Case Processing Summary

Faktor B Cases

		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Observasi	1	9	100.0%	0	0.0%	9	100.0%
	2	9	100.0%	0	0.0%	9	100.0%
	3	9	100.0%	0	0.0%	9	100.0%
	4	9	100.0%	0	0.0%	9	100.0%

Descriptives

Faktor B		Statistic	Std. Error
Observasi	1	Mean	32.22
		95% Confidence Interval for Lower Bound	29.65
		Mean Upper Bound	34.79
		5% Trimmed Mean	32.08
		Median	31.00
		Variance	11.194
		Std. Deviation	3.346
		Minimum	28
		Maximum	39
		Range	11
		Interquartile Range	5
		Skewness	.962
		Kurtosis	1.012
	2	Mean	34.56
		95% Confidence Interval for Lower Bound	30.91
		Mean Upper Bound	38.20
		5% Trimmed Mean	34.67
		Median	35.00
		Variance	22.528
		Std. Deviation	4.746
		Minimum	26
		Maximum	41
		Range	15
		Interquartile Range	8
		Skewness	-.437
		Kurtosis	-.098
	3	Mean	37.89
		95% Confidence Interval for Lower Bound	35.27
		Mean Upper Bound	40.51
		5% Trimmed Mean	37.99

4	Median	39.00	
	Variance	11.611	
	Std. Deviation	3.408	
	Minimum	32	
	Maximum	42	
	Range	10	
	Interquartile Range	6	
	Skewness	-.853	.717
	Kurtosis	-.247	1.400
	Mean	40.67	1.167
	95% Confidence Interval for	Lower Bound	37.98
	Mean	Upper Bound	43.36
	5% Trimmed Mean	40.57	
	Median	40.00	
	Variance	12.250	
	Std. Deviation	3.500	
	Minimum	36	
	Maximum	47	
	Range	11	
	Interquartile Range	5	
	Skewness	.335	.717
	Kurtosis	.221	1.400

Observasi

Stem-and-Leaf Plots

Observasi Stem-and-Leaf Plot for
Temperatur= 1

Frequency	Stem & Leaf
2.00	2 . 89
5.00	3 . 11124
1.00	3 . 5
1.00	Extremes (>=39)

Stem width: 10
Each leaf: 1 case(s)

Observasi Stem-and-Leaf Plot for
Temperatur= 2

Frequency	Stem & Leaf
1.00	2 . 6
3.00	3 . 024
3.00	3 . 567
2.00	4 . 01

Stem width: 10
Each leaf: 1 case(s)

Observasi Stem-and-Leaf Plot for
Temperatur= 3

Frequency	Stem & Leaf
1.00	Extremes (= < 32)
1.00	3 . 3
4.00	3 . 7899
3.00	4 . 012

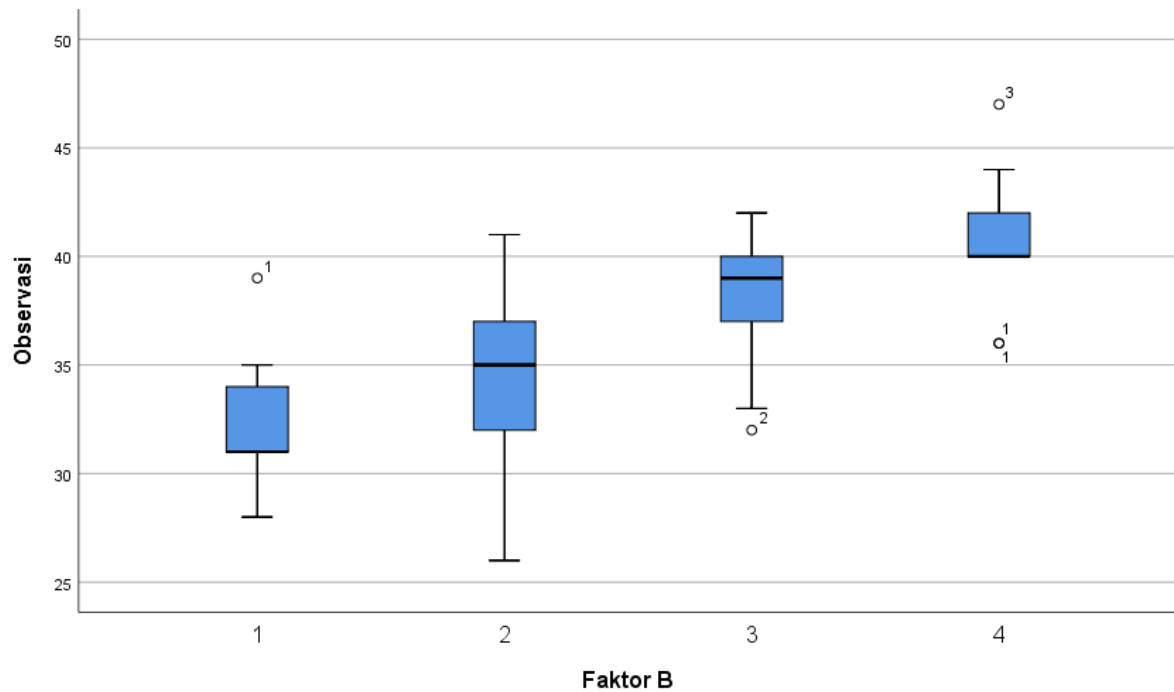
Stem width: 10
Each leaf: 1 case(s)

Observasi Stem-and-Leaf Plot for
Temperatur= 4

Frequency	Stem & Leaf
2.00	Extremes (= < 36.0)
3.00	40 . 000
1.00	41 . 0
1.00	42 . 0
.00	43 .
1.00	44 . 0
1.00	Extremes (>= 47.0)

Stem width: 1
Each leaf: 1 case(s)

Boxplots



```
NEW FILE.  
DATASET NAME DataSet2 WINDOW=FRONT.  
  
SAVE OUTFILE='D:\ELEX2020\2020-2021\Data\Input\Data 8.1.sav'  
/COMPRESSED.  
DATASET ACTIVATE DataSet2.  
  
SAVE OUTFILE='D:\ELEX2020\2020-2021\Data\Input\Data 8.1.sav'  
/COMPRESSED.  
WEIGHT BY Jumlah.
```