```
Your temporary usage period for IBM SPSS Statistics will expire in 11 days.
Your license will expire in 11 days.
 FILE='C:\Users\Bahador\Desktop\Analysis\Correlation\Correlation_Accuracy.sav
١.
DATASET NAME DataSet1 WINDOW=FRONT.
GLM Bar_Num_Num_CarBar_Num_Num_MovieBar_Ord_Num_CarBar_Ord_Num_MovieLine_N
um_Num_Car
   Line_Num_Num_MovieLine_Ord_Num_CarLine_Ord_Num_MoviePie_Num_Num_CarPie
_Num_Num_Movie
   Pie_Ord_Num_CarPie_Ord_Num_MovieScatter_Num_Num_CarScatter_Num_Num_Movi
e Scatter_Ord_Num_Car
    Scatter_Ord_Num_MovieTable_Num_Num_CarTable_Num_Num_MovieTable_Ord_Num_
Car Table Ord Num Movie
  /WSFACTOR=Visualization 5 Polynomial DataAttributeType 2 Polynomial Dataset
2 Polynomial
 /METHOD=SSTYPE(3)
 /EMMEANS=TABLES(OVERALL)
  /EMMEANS=TABLES(Visualization) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(DataAttributeType COMPARE ADJ(BONFERRONI)
 /EMMEANS=TABLES(Visualization*DataAttributeType)
 /PRINT=DESCRIPTIVE ETASQ OPOWER HOMOGENEITY
 /CRITERIA=ALPHA(.05)
 /WSDESIGN=VisualizationDataAttributeTypeDataset Visualization*DataAttribut
eType
   Visualization*Dataset DataAttributeTypeDataset Visualization*DataAttribut
```

General Linear Model

eType*Dataset.

Notes

Output Created		06-SEP-2016 12:25:13
Comments		
Input	Data	C: \Users\Bahador\Desktop\A nalysis\Correlation\Correla tion_Accuracy.sav
	Active Dataset	DataSet1
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	18
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.

Notes

	Notes
Syntax	GLM Bar_Num_Num_Car Bar_Num_Num_Movie Bar_Ord_Num_Car Bar_Ord_Num_Movie Line_Num_Num_Car Line_Num_Num_Movie Line_Ord_Num_Car Line_Ord_Num_Movie Pie_Num_Num_Car Pie_Num_Num_Car Pie_Ord_Num_Car Pie_Ord_Num_Car Pie_Ord_Num_Movie Scatter_Num_Num_Car Scatter_Num_Num_Car Scatter_Ord_Num_Movie Scatter_Ord_Num_Movie
	Table_Num_Num_Car Table_Num_Num_Movie Table_Ord_Num_Car Table_Ord_Num_Movie
	/WSFACTOR=Visualizatio n 5 Polynomial DataAttributeType 2 Polynomial Dataset 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (OVERALL) /EMMEANS=TABLES (Visualization) COMPARE ADJ(BONFERRONI) /EMMEANS=TABLES (DataAttributeType) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (Visualization*DataAttribut eType) /PRINT=DESCRIPTIVE ETASQ OPOWER HOMOGENEITY /CRITERIA=ALPHA(.05)
	n DataAttributeType Dataset Visualization*DataAttribute Type Visualization*Dataset DataAttributeType*Dataset Visualization*DataAttribute Type*Dataset

Type*Dataset.

Notes

Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\Bahador\Desktop\Analysis\Correlation\Correlation_Accuracy.sav

Warnings

The HOMOGENEITY specification in the PRINT subcommand will be ignored because there are no between-subjects factors.

Within-Subjects Factors

Visualization	DataAttributeType	Dataset	Dependent Variable
1	1	1	Bar_Num_Nu m_Car
		2	Bar_Num_Nu m_Movie
	2	1	Bar_Ord_Nu m_Car
		2	Bar_Ord_Nu m_Movie
2	1	1	Line_Num_Nu m_Car
		2	Line_Num_Nu m_Movie
	2	1	Line_Ord_Nu m_Car
		2	Line_Ord_Nu m_Movie
3	1	1	Pie_Num_Nu m_Car
		2	Pie_Num_Nu m_Movie
	2	1	Pie_Ord_Num _Car
		2	Pie_Ord_Num _Movie

Within-Subjects Factors

Measure: MEASURE_1

Visualization	DataAttributeType	Dataset	Dependent Variable
4	1	1	Scatter_Num_ Num_Car
		2	Scatter_Num_ Num_Movie
	2	1	Scatter_Ord_ Num_Car
		2	Scatter_Ord_ Num_Movie
5	1	1	Table_Num_ Num_Car
		2	Table_Num_ Num_Movie
	2	1	Table_Ord_N um_Car
		2	Table_Ord_N um_Movie

Descriptive Statistics

	Mean	Std. Deviation	N
Bar_Num_Num_Car	72.2222	46.08886	18
Bar_Num_Num_Movie	66.6667	48.50713	18
Bar_Ord_Num_Car	83.3333	38.34825	18
Bar_Ord_Num_Movie	100.0000	.00000	18
Line_Num_Num_Car	88.8889	32.33808	18
Line_Num_Num_Movie	88.8889	32.33808	18
Line_Ord_Num_Car	94.4444	23.57023	18
Line_Ord_Num_Movie	83.3333	38.34825	18
Pie_Num_Num_Car	61.1111	50.16313	18
Pie_Num_Num_Movie	61.1111	50.16313	18
Pie_Ord_Num_Car	77.7778	42.77926	18
Pie_Ord_Num_Movie	66.6667	48.50713	18
Scatter_Num_Num_Car	77.7778	42.77926	18
Scatter_Num_Num_Movie	83.3333	38.34825	18
Scatter_Ord_Num_Car	94.4444	23.57023	18

Descriptive Statistics

	Mean	Std. Deviation	N
Scatter_Ord_Num_Movie	88.8889	32.33808	18
Table_Num_Num_Car	27.7778	46.08886	18
Table_Num_Num_Movie	33.3333	48.50713	18
Table_Ord_Num_Car	88.8889	32.33808	18
Table_Ord_Num_Movie	61.1111	50.16313	18

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df
Visualization	Pillai's Trace	.678	7.380 ^b	4.000	14.000
	Wilks' Lambda	.322	7.380 ^b	4.000	14.000
	Hotelling's Trace	2.108	7.380 ^b	4.000	14.000
	Roy's Largest Root	2.108	7.380 ^b	4.000	14.000
DataAttributeType	Pillai's Trace	.508	17.548 ^b	1.000	17.000
•	Wilks' Lambda	.492	17.548 ^b	1.000	17.000
•	Hotelling's Trace	1.032	17.548 ^b	1.000	17.000
	Roy's Largest Root	1.032	17.548 ^b	1.000	17.000
Dataset	Pillai's Trace	.033	.586 ^b	1.000	17.000
	Wilks' Lambda	.967	.586 ^b	1.000	17.000
	Hotelling's Trace	.034	.586 ^b	1.000	17.000
	Roy's Largest Root	.034	.586 ^b	1.000	17.000
Visualization *	Pillai's Trace	.534	4.011 ^b	4.000	14.000
DataAttributeType	Wilks' Lambda	.466	4.011 ^b	4.000	14.000
	Hotelling's Trace	1.146	4.011 ^b	4.000	14.000
	Roy's Largest Root	1.146	4.011 ^b	4.000	14.000
Visualization * Dataset	Pillai's Trace	.060	.223 ^b	4.000	14.000
	Wilks' Lambda	.940	.223 ^b	4.000	14.000
	Hotelling's Trace	.064	.223 ^b	4.000	14.000
	Roy's Largest Root	.064	.223 ^b	4.000	14.000
DataAttributeType * Dataset	Pillai's Trace	.099	1.863 ^b	1.000	17.000
	Wilks' Lambda	.901	1.863 ^b	1.000	17.000
	Hotelling's Trace	.110	1.863 ^b	1.000	17.000
	Roy's Largest Root	.110	1.863 ^b	1.000	17.000

Multivariate Tests^a

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Visualization	Pillai's Trace	.002	.678	29.519
	Wilks' Lambda	.002	.678	29.519
	Hotelling's Trace	.002	.678	29.519
	Roy's Largest Root	.002	.678	29.519
DataAttributeType	Pillai's Trace	.001	.508	17.548
	Wilks' Lambda	.001	.508	17.548
	Hotelling's Trace	.001	.508	17.548
	Roy's Largest Root	.001	.508	17.548
Dataset	Pillai's Trace	.454	.033	.586
	Wilks' Lambda	.454	.033	.586
	Hotelling's Trace	.454	.033	.586
	Roy's Largest Root	.454	.033	.586
Visualization *	Pillai's Trace	.023	.534	16.044
DataAttributeType	Wilks' Lambda	.023	.534	16.044
	Hotelling's Trace	.023	.534	16.044
	Roy's Largest Root	.023	.534	16.044
Visualization * Dataset	Pillai's Trace	.921	.060	.891
	Wilks' Lambda	.921	.060	.891
	Hotelling's Trace	.921	.060	.891
	Roy's Largest Root	.921	.060	.891
DataAttributeType * Dataset	Pillai's Trace	.190	.099	1.863
	Wilks' Lambda	.190	.099	1.863
	Hotelling's Trace	.190	.099	1.863
	Roy's Largest Root	.190	.099	1.863

Multivariate Tests^a

Effect		Observed Power ^c
Visualization	Pillai's Trace	.971
	Wilks' Lambda	.971
	Hotelling's Trace	.971
	Roy's Largest Root	.971
DataAttributeType	Pillai's Trace	.976
	Wilks' Lambda	.976
	Hotelling's Trace	.976
	Roy's Largest Root	.976
Dataset	Pillai's Trace	.112
	Wilks' Lambda	.112
	Hotelling's Trace	.112
	Roy's Largest Root	.112
Visualization *	Pillai's Trace	.783
DataAttributeType	Wilks' Lambda	.783
	Hotelling's Trace	.783
	Roy's Largest Root	.783
Visualization * Dataset	Pillai's Trace	.085
	Wilks' Lambda	.085
	Hotelling's Trace	.085
	Roy's Largest Root	.085
DataAttributeType * Dataset	Pillai's Trace	.252
	Wilks' Lambda	.252
	Hotelling's Trace	.252
	Roy's Largest Root	.252

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df
Visualization *	Pillai's Trace	.203	.892 ^b	4.000	14.000
DataAttributeType * Dataset	Wilks' Lambda	.797	.892 ^b	4.000	14.000
	Hotelling's Trace	.255	.892 ^b	4.000	14.000
	Roy's Largest Root	.255	.892 ^b	4.000	14.000

Multivariate Tests^a

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Visualization * DataAttributeType * Dataset	Pillai's Trace	.494	.203	3.568
	Wilks' Lambda	.494	.203	3.568
	Hotelling's Trace	.494	.203	3.568
	Roy's Largest Root	.494	.203	3.568

Multivariate Tests^a

Effect		Observed Power ^c
Visualization *	Pillai's Trace	.215
DataAttributeType * Dataset -	Wilks' Lambda	.215
	Hotelling's Trace	.215
	Roy's Largest Root	.215

a. Design: Intercept

Within Subjects Design: Visualization + DataAttributeType + Dataset + Visualization * DataAttributeType + Visualization * DataAttributeType * Dataset + Visualization * DataAttributeType * Dataset

- b. Exact statistic
- c. Computed using alpha = .05

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi- Square	df	Sig.	Epsilon ^b Greenhouse- Geisser
Visualization	.412	13.681	9	.136	.664
DataAttributeType	1.000	.000	0		1.000
Dataset	1.000	.000	0		1.000
Visualization * DataAttributeType	.658	6.453	9	.696	.829
Visualization * Dataset	.428	13.077	9	.161	.743
DataAttributeType * Dataset	1.000	.000	0		1.000
Visualization * DataAttributeType * Dataset	.510	10.383	9	.323	.775

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Epsilon^b

Within Subjects Effect	Huynh-Feldt	Lower-bound
Visualization	.798	.250
DataAttributeType	1.000	1.000
Dataset	1.000	1.000
Visualization * DataAttributeType	1.000	.250
Visualization * Dataset	.918	.250
DataAttributeType * Dataset	1.000	1.000
Visualization * DataAttributeType * Dataset	.967	.250

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

- a. Design: Intercept
 - Within Subjects Design: Visualization + DataAttributeType + Dataset + Visualization * DataAttributeType + Visualization * DataAttributeType * Dataset + Visualization * DataAttributeType * Dataset
- b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

		Type III Sum of			
Source		Squares	df	Mean Square	F
Visualization	Sphericity Assumed	65555.556	4	16388.889	12.187
	Greenhouse-Geisser	65555.556	2.656	24682.841	12.187
	Huynh-Feldt	65555.556	3.193	20528.409	12.187
	Lower-bound	65555.556	1.000	65555.556	12.187
Error(Visualization)	Sphericity Assumed	91444.444	68	1344.771	
	Greenhouse-Geisser	91444.444	45.151	2025.322	
	Huynh-Feldt	91444.444	54.288	1684.435	
	Lower-bound	91444.444	17.000	5379.085	
DataAttributeType	Sphericity Assumed	28444.444	1	28444.444	17.548
	Greenhouse-Geisser	28444.444	1.000	28444.444	17.548
	Huynh-Feldt	28444.444	1.000	28444.444	17.548
	Lower-bound	28444.444	1.000	28444.444	17.548
Error(DataAttributeType)	Sphericity Assumed	27555.556	17	1620.915	
	Greenhouse-Geisser	27555.556	17.000	1620.915	
	Huynh-Feldt	27555.556	17.000	1620.915	
	Lower-bound	27555.556	17.000	1620.915	
Dataset	Sphericity Assumed	1000.000	1	1000.000	.586
	Greenhouse-Geisser	1000.000	1.000	1000.000	.586
	Huynh-Feldt	1000.000	1.000	1000.000	.586
	Lower-bound	1000.000	1.000	1000.000	.586
Error(Dataset)	Sphericity Assumed	29000.000	17	1705.882	
	Greenhouse-Geisser	29000.000	17.000	1705.882	
	Huynh-Feldt	29000.000	17.000	1705.882	
	Lower-bound	29000.000	17.000	1705.882	
Visualization *	Sphericity Assumed	20444.444	4	5111.111	3.526
DataAttributeType	Greenhouse-Geisser	20444.444	3.316	6166.226	3.526
	Huynh-Feldt	20444.444	4.000	5111.111	3.526
	Lower-bound	20444.444	1.000	20444.444	3.526
Error	Sphericity Assumed	98555.556	68	1449.346	
(Visualization*DataAttribute Type)	Greenhouse-Geisser	98555.556	56.364	1748.543	
	Huynh-Feldt	98555.556	68.000	1449.346	
	Lower-bound	98555.556	17.000	5797.386	
Visualization * Dataset	Sphericity Assumed	2888.889	4	722.222	.402
	Greenhouse-Geisser	2888.889	2.972	972.095	.402

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Visualization	Sphericity Assumed	.000	.418	48.748
	Greenhouse-Geisser	.000	.418	32.368
	Huynh-Feldt	.000	.418	38.918
	Lower-bound	.003	.418	12.187
Error(Visualization)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
DataAttributeType	Sphericity Assumed	.001	.508	17.548
	Greenhouse-Geisser	.001	.508	17.548
	Huynh-Feldt	.001	.508	17.548
	Lower-bound	.001	.508	17.548
Error(DataAttributeType)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Dataset	Sphericity Assumed	.454	.033	.586
	Greenhouse-Geisser	.454	.033	.586
	Huynh-Feldt	.454	.033	.586
	Lower-bound	.454	.033	.586
Error(Dataset)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Visualization *	Sphericity Assumed	.011	.172	14.106
DataAttributeType	Greenhouse-Geisser	.017	.172	11.692
	Huynh-Feldt	.011	.172	14.106
	Lower-bound	.078	.172	3.526
Error	Sphericity Assumed			
(Visualization*DataAttribute Type)	Greenhouse-Geisser			
.) []	Huynh-Feldt			
	Lower-bound			
Visualization * Dataset	Sphericity Assumed	.806	.023	1.609
	Greenhouse-Geisser	.750	.023	1.195

Source		Observed Power ^a
Visualization	Sphericity Assumed	1.000
	Greenhouse-Geisser	.999
	Huynh-Feldt	1.000
	Lower-bound	.908
Error(Visualization)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
DataAttributeType	Sphericity Assumed	.976
	Greenhouse-Geisser	.976
	Huynh-Feldt	.976
	Lower-bound	.976
Error(DataAttributeType)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
Dataset	Sphericity Assumed	.112
	Greenhouse-Geisser	.112
	Huynh-Feldt	.112
	Lower-bound	.112
Error(Dataset)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
Visualization *	Sphericity Assumed	.842
DataAttributeType	Greenhouse-Geisser	.784
	Huynh-Feldt	.842
	Lower-bound	.425
Error	Sphericity Assumed	
(Visualization*DataAttribute Type)	Greenhouse-Geisser	
1,700)	Huynh-Feldt	
	Lower-bound	
Visualization * Dataset	Sphericity Assumed	.138
	Greenhouse-Geisser	.124

Source		Type III Sum of Squares	df	Mean Square	F
	Huynh-Feldt	2888.889	3.671	787.022	.402
	Lower-bound	2888.889	1.000	2888.889	.402
Error(Visualization*Dataset)	Sphericity Assumed	122111.111	68	1795.752	
	Greenhouse-Geisser	122111.111	50.521	2417.043	
	Huynh-Feldt	122111.111	62.401	1956.871	
	Lower-bound	122111.111	17.000	7183.007	
DataAttributeType * Dataset	Sphericity Assumed	1777.778	1	1777.778	1.863
	Greenhouse-Geisser	1777.778	1.000	1777.778	1.863
	Huynh-Feldt	1777.778	1.000	1777.778	1.863
	Lower-bound	1777.778	1.000	1777.778	1.863
Error	Sphericity Assumed	16222.222	17	954.248	
(DataAttributeType*Dataset	Greenhouse-Geisser	16222.222	17.000	954.248	
,	Huynh-Feldt	16222.222	17.000	954.248	
	Lower-bound	16222.222	17.000	954.248	
Visualization *	Sphericity Assumed	7111.111	4	1777.778	1.008
DataAttributeType * Dataset	Greenhouse-Geisser	7111.111	3.099	2294.926	1.008
	Huynh-Feldt	7111.111	3.868	1838.286	1.008
	Lower-bound	7111.111	1.000	7111.111	1.008
Error	Sphericity Assumed	119888.889	68	1763.072	
(Visualization*DataAttribute Type*Dataset)	Greenhouse-Geisser	119888.889	52.677	2275.942	
.) [- 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Huynh-Feldt	119888.889	65.762	1823.080	
	Lower-bound	119888.889	17.000	7052.288	

Source		Sig.	Partial Eta Squared	Noncent. Parameter
	Huynh-Feldt	.790	.023	1.476
	Lower-bound	.534	.023	.402
Error(Visualization*Dataset)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
DataAttributeType * Dataset	Sphericity Assumed	.190	.099	1.863
	Greenhouse-Geisser	.190	.099	1.863
	Huynh-Feldt	.190	.099	1.863
	Lower-bound	.190	.099	1.863
Error	Sphericity Assumed			
(DataAttributeType*Dataset	Greenhouse-Geisser			
,	Huynh-Feldt			
	Lower-bound			
Visualization *	Sphericity Assumed	.409	.056	4.033
DataAttributeType * Dataset	Greenhouse-Geisser	.398	.056	3.124
	Huynh-Feldt	.408	.056	3.901
	Lower-bound	.329	.056	1.008
Error	Sphericity Assumed			
(Visualization*DataAttribute Type*Dataset)	Greenhouse-Geisser			
. , , , , , , , , , , , , , , , , , , ,	Huynh-Feldt			
	Lower-bound			

Source		Observed Power ^a
	Huynh-Feldt	.133
	Lower-bound	.092
Error(Visualization*Dataset)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
DataAttributeType * Dataset	Sphericity Assumed	.252
	Greenhouse-Geisser	.252
	Huynh-Feldt	.252
	Lower-bound	.252
Error	Sphericity Assumed	
(DataAttributeType*Dataset	Greenhouse-Geisser	
,	Huynh-Feldt	
	Lower-bound	
Visualization *	Sphericity Assumed	.302
DataAttributeType * Dataset	Greenhouse-Geisser	.263
	Huynh-Feldt	.297
	Lower-bound	.158
Error	Sphericity Assumed	
(Visualization*DataAttribute Type*Dataset)	Greenhouse-Geisser	
. ypo baladoly	Huynh-Feldt	
	Lower-bound	

a. Computed using alpha = .05

Measure: MEASURE_1					
Source	Visualization	DataAttributeType	Dataset	Type III Sum of Squares	df
Visualization	Linear			24500.000	1
	Quadratic			8928.571	1
	Cubic			3555.556	1
	Order 4			28571.429	1
Error(Visualization)	Linear			43000.000	17
	Quadratic			12142.857	17
	Cubic			16444.444	17
	Order 4			19857.143	17
DataAttributeType		Linear		28444.444	1
Error(DataAttributeType)		Linear		27555.556	17
Dataset			Linear	1000.000	1
Error(Dataset)			Linear	29000.000	17
Visualization *	Linear	Linear		5555.556	1
DataAttributeType	Quadratic	Linear		12857.143	1
	Cubic	Linear		.000	1
	Order 4	Linear		2031.746	1
Error	Linear	Linear		22944.444	17
(Visualization*DataAttribute Type)	Quadratic	Linear		27500.000	17
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Cubic	Linear		19000.000	17
	Order 4	Linear		29111.111	17
Visualization * Dataset	Linear		Linear	1388.889	1
	Quadratic		Linear	39.683	1
	Cubic		Linear	1388.889	1
	Order 4		Linear	71.429	1
Error(Visualization*Dataset)	Linear		Linear	28111.111	17
	Quadratic		Linear	18174.603	17
	Cubic		Linear	41611.111	17
	Order 4		Linear	34214.286	17
DataAttributeType * Dataset		Linear	Linear	1777.778	1
Error (DataAttributeType*Dataset)		Linear	Linear	16222.222	17
Visualization *	Linear	Linear	Linear	5555.556	1
DataAttributeType * Dataset	Quadratic	Linear	Linear	158.730	1

Source	Visualization	DataAttributeType	Dataset	Mean Square	F
Visualization	Linear			24500.000	9.686
	Quadratic			8928.571	12.500
	Cubic			3555.556	3.676
	Order 4			28571.429	24.460
Error(Visualization)	Linear			2529.412	
	Quadratic			714.286	
	Cubic			967.320	
	Order 4			1168.067	
DataAttributeType		Linear		28444.444	17.548
Error(DataAttributeType)		Linear		1620.915	
Dataset			Linear	1000.000	.586
Error(Dataset)			Linear	1705.882	
Visualization *	Linear	Linear		5555.556	4.116
DataAttributeType	Quadratic	Linear		12857.143	7.948
	Cubic	Linear		.000	.000
	Order 4	Linear		2031.746	1.186
Error	Linear	Linear		1349.673	
(Visualization*DataAttribute Type)	Quadratic	Linear		1617.647	
,,,,,,	Cubic	Linear		1117.647	
	Order 4	Linear		1712.418	
Visualization * Dataset	Linear		Linear	1388.889	.840
	Quadratic		Linear	39.683	.037
	Cubic		Linear	1388.889	.567
	Order 4		Linear	71.429	.035
Error(Visualization*Dataset)	Linear		Linear	1653.595	
	Quadratic		Linear	1069.094	
	Cubic		Linear	2447.712	
	Order 4		Linear	2012.605	
DataAttributeType * Dataset		Linear	Linear	1777.778	1.863
Error (DataAttributeType*Dataset)		Linear	Linear	954.248	
Visualization *	Linear	Linear	Linear	5555.556	2.425
DataAttributeType * Dataset	Quadratic	Linear	Linear	158.730	.125

Source	Visualization	DataAttributeType	Dataset	Sig.	Partial Eta Squared
Visualization	Linear			.006	.363
	Quadratic			.003	.424
	Cubic			.072	.178
	Order 4			.000	.590
Error(Visualization)	Linear				
	Quadratic				
	Cubic				
	Order 4				
DataAttributeType		Linear		.001	.508
Error(DataAttributeType)		Linear			
Dataset			Linear	.454	.033
Error(Dataset)			Linear		
Visualization *	Linear	Linear		.058	.195
DataAttributeType	Quadratic	Linear		.012	.319
	Cubic	Linear		1.000	.000
	Order 4	Linear		.291	.065
Error	Linear	Linear			
(Visualization*DataAttribute Type)	Quadratic	Linear			
71 · 7	Cubic	Linear			
	Order 4	Linear			
Visualization * Dataset	Linear		Linear	.372	.047
	Quadratic		Linear	.850	.002
	Cubic		Linear	.462	.032
	Order 4		Linear	.853	.002
Error(Visualization*Dataset)	Linear		Linear		
	Quadratic		Linear		
	Cubic		Linear		
	Order 4		Linear		
DataAttributeType * Dataset		Linear	Linear	.190	.099
Error (DataAttributeType*Dataset)		Linear	Linear		
Visualization *	Linear	Linear	Linear	.138	.125
DataAttributeType * Dataset	Quadratic	Linear	Linear	.728	.007

Source	Visualization	DataAttributeType	Dataset	Noncent. Parameter	Observed Power ^a
Visualization	Linear			9.686	.835
	Quadratic			12.500	.915
	Cubic			3.676	.440
	Order 4			24.460	.996
Error(Visualization)	Linear				
	Quadratic				
	Cubic				
	Order 4				
DataAttributeType		Linear		17.548	.976
Error(DataAttributeType)		Linear			
Dataset			Linear	.586	.112
Error(Dataset)			Linear		
Visualization *	Linear	Linear		4.116	.482
DataAttributeType	Quadratic	Linear		7.948	.757
	Cubic	Linear		.000	.050
	Order 4	Linear		1.186	.177
Error	Linear	Linear			
(Visualization*DataAttribute Type)	Quadratic	Linear			
.,,,,,	Cubic	Linear			
	Order 4	Linear			
Visualization * Dataset	Linear		Linear	.840	.139
	Quadratic		Linear	.037	.054
	Cubic		Linear	.567	.110
	Order 4		Linear	.035	.054
Error(Visualization*Dataset)	Linear		Linear		
	Quadratic		Linear		
	Cubic		Linear		
	Order 4		Linear		
DataAttributeType * Dataset		Linear	Linear	1.863	.252
Error (DataAttributeType*Dataset)		Linear	Linear		
Visualization *	Linear	Linear	Linear	2.425	.312
DataAttributeType * Dataset	Quadratic	Linear	Linear	.125	.063

Measure: MEASURE_1

Source	Visualization	DataAttributeType	Dataset	Type III Sum of Squares	df
	Cubic	Linear	Linear	1388.889	1
	Order 4	Linear	Linear	7.937	1
Error	Linear	Linear	Linear	38944.444	17
(Visualization*DataAttribute Type*Dataset)	Quadratic	Linear	Linear	21626.984	17
	Cubic	Linear	Linear	26611.111	17
	Order 4	Linear	Linear	32706.349	17

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Visualization	DataAttributeType	Dataset	Mean Square	F
	Cubic	Linear	Linear	1388.889	.887
	Order 4	Linear	Linear	7.937	.004
Error	Linear	Linear	Linear	2290.850	
(Visualization*DataAttribute Type*Dataset)	Quadratic	Linear	Linear	1272.176	
	Cubic	Linear	Linear	1565.359	
	Order 4	Linear	Linear	1923.903	

Tests of Within-Subjects Contrasts

Source	Visualization	DataAttributeType	Dataset	Sig.	Partial Eta Squared
	Cubic	Linear	Linear	.359	.050
	Order 4	Linear	Linear	.950	.000
Error	Linear	Linear	Linear		
(Visualization*DataAttribute Type*Dataset)	Quadratic	Linear	Linear		
	Cubic	Linear	Linear		
	Order 4	Linear	Linear		

Measure: MEASURE_1

Source	Visualization	DataAttributeType	Dataset	Noncent. Parameter	Observed Power ^a
	Cubic	Linear	Linear	.887	.144
	Order 4	Linear	Linear	.004	.050
Error	Linear	Linear	Linear		
(Visualization*DataAttribute Type*Dataset)	Quadratic	Linear	Linear		
Typo Balaotiy	Cubic	Linear	Linear		
	Order 4	Linear	Linear		

a. Computed using alpha = .05

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	2025000.000	1	2025000.000	800.581	.000	.979
Error	43000.000	17	2529.412			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power ^a
Intercept	800.581	1.000
Error		

a. Computed using alpha = .05

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

		95% Confidence Interval		
Mean	Std. Error	Lower Bound	Upper Bound	
75.000	2.651	69.408	80.592	

2. Visualization

Estimates

Measure: MEASURE_1

			95% Confidence Interval		
Visualization	Mean	Std. Error	Lower Bound	Upper Bound	
1	80.556	5.175	69.638	91.474	
2	88.889	3.013	82.532	95.246	
3	66.667	4.519	57.132	76.202	
4	86.111	4.153	77.349	94.873	
5	52.778	6.026	40.064	65.491	

Pairwise Comparisons

		Mean			95% Confidence ^b
(I) Visualization	(J) Visualization	Difference (I-J)	Std. Error	Sig. ^b	Lower Bound
1	2	-8.333	5.347	1.000	-25.565
	3	13.889	6.138	.370	-5.890
	4	-5.556	5.175	1.000	-22.231
	5	27.778*	8.306	.038	1.012
2	1	8.333	5.347	1.000	-8.898
	3	22.222*	5.677	.011	3.929
	4	2.778	5.305	1.000	-14.317
	5	36.111 [*]	7.886	.003	10.700
3	1	-13.889	6.138	.370	-33.668
	2	-22.222 [*]	5.677	.011	-40.515
	4	-19.444 [*]	5.175	.016	-36.120
	5	13.889	5.042	.135	-2.357
4	1	5.556	5.175	1.000	-11.120
	2	-2.778	5.305	1.000	-19.872
	3	19.444*	5.175	.016	2.769
	5	33.333*	6.063	.000	13.794
5	1	-27.778 [*]	8.306	.038	-54.544
	2	-36.111 [*]	7.886	.003	-61.522
	3	-13.889	5.042	.135	-30.135
	4	-33.333 [*]	6.063	.000	-52.872

Pairwise Comparisons

Measure: MEASURE_1

95% Confidence Interval for ^b...

(I) Visualization	(J) Visualization	Upper Bound
1	2	8.898
	3	33.668
	4	11.120
	5	54.544
2	1	25.565
	3	40.515
	4	19.872
	5	61.522
3	1	5.890
	2	-3.929
	4	-2.769
	5	30.135
4	1	22.231
	2	14.317
	3	36.120
	5	52.872
5	1	-1.012
	2	-10.700
	3	2.357
	4	-13.794

Based on estimated marginal means

b. Adjustment for multiple comparisons: Bonferroni.

^{*.} The mean difference is significant at the .05 level.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.678	7.380 ^a	4.000	14.000	.002	.678
Wilks' lambda	.322	7.380 ^a	4.000	14.000	.002	.678
Hotelling's trace	2.108	7.380 ^a	4.000	14.000	.002	.678
Roy's largest root	2.108	7.380 ^a	4.000	14.000	.002	.678

Multivariate Tests

	Noncent. Parameter	Observed Power ^b
Pillai's trace	29.519	.971
Wilks' lambda	29.519	.971
Hotelling's trace	29.519	.971
Roy's largest root	29.519	.971

Each F tests the multivariate effect of Visualization. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

- a. Exact statistic
- b. Computed using alpha = .05

3. DataAttributeType

Estimates

			95% Confidence Interval		
DataAttributeType	Mean	Std. Error	Lower Bound	Upper Bound	
1	66.111	2.817	60.168	72.054	
2	83.889	3.889	75.684	92.094	

Pairwise Comparisons

Measure: MEASURE_1

		Mean			95% Confidence ^b
(I) DataAttributeType	(J) DataAttributeType	Difference (I-J)	Std. Error	Sig. ^b	Lower Bound
1	2	-17.778 [*]	4.244	.001	-26.731
2	1	17.778*	4.244	.001	8.824

Pairwise Comparisons

Measure: MEASURE_1

95% Confidence Interval for ^b...

(I) DataAttributeType	(J) DataAttributeType	Upper Bound
1	2	-8.824
2	1	26.731

Based on estimated marginal means

- *. The mean difference is significant at the .05 level.
- b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.508	17.548 ^a	1.000	17.000	.001	.508
Wilks' lambda	.492	17.548 ^a	1.000	17.000	.001	.508
Hotelling's trace	1.032	17.548 ^a	1.000	17.000	.001	.508
Roy's largest root	1.032	17.548 ^a	1.000	17.000	.001	.508

Multivariate Tests

	Noncent. Parameter	Observed Power ^b
Pillai's trace	17.548	.976
Wilks' lambda	17.548	.976
Hotelling's trace	17.548	.976
Roy's largest root	17.548	.976

Each F tests the multivariate effect of DataAttributeType. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

b. Computed using alpha = .05

4. Visualization * DataAttributeType

				95% Confidence Interval		
Visualization	DataAttributeType	Mean	Std. Error	Lower Bound	Upper Bound	
1	1	69.444	8.224	52.094	86.795	
	2	91.667	4.519	82.132	101.202	
2	1	88.889	5.042	78.252	99.526	
	2	88.889	5.042	78.252	99.526	
3	1	61.111	6.462	47.477	74.745	
	2	72.222	8.306	54.698	89.746	
4	1	80.556	7.162	65.446	95.665	
	2	91.667	4.519	82.132	101.202	
5	1	30.556	5.912	18.083	43.028	
	2	75.000	8.333	57.418	92.582	