```
Your temporary usage period for IBM SPSS Statistics will expire in 10 days.
Your license will expire in 10 days.
GET
 FILE='C:\Users\Bahador\Desktop\Analysis\EXtremum\Extremum_Accuracy.sav.
DATASET NAME DataSet1 WINDOW=FRONT.
GLM Bar_Nom_Num_CarBar_Nom_Num_MovieBar_Num_Num_CarBar_Num_Num_MovieBar_Or
d Num Car
    Bar_Ord_Num_MovieLine_Nom_Num_CarLine_Nom_Num_MovieLine_Num_Num_CarLin
e_Num_Num_Movie
   Line_Ord_Num_CarLine_Ord_Num_MoviePie_Nom_Num_CarPie_Nom_Num_MoviePie_
Num Num Car
    Pie_Num_Num_MoviePie_Ord_Num_CarPie_Ord_Num_MovieScatter_Nom_Num_CarSc
atter_Nom_Num_Movie
    Scatter_Num_Num_CarScatter_Num_Num_MovieScatter_Ord_Num_CarScatter_Ord_
Num_Movie
    Table_Nom_Num_CarTable_Nom_Num_MovieTable_Num_Num_CarTable_Num_Num_Movi
e Table Ord Num Car
   Table Ord Num Movie
  /WSFACTOR=Visualization 5 Polynomial DataAttributeType 3 Polynomial Datasets
 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 ETASO OPOWER HOMOGENEITY
```

Visualization*Datasets DataAttributeType*Datasets Visualization*DataAttributeType*Datasets.

/WSDESIGN=Visualization DataAttributeTypeDatasets Visualization*DataAttribu

General Linear Model

/CRITERIA=ALPHA(.05)

teType

Notes

Output Created		07-SEP-2016 10:07:58
Comments		
Input	Data	C: \Users\Bahador\Desktop\A nalysis\EXtremum\Extrem um_Accuracy.sav
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	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 GLM Bar_Nom_Num_Car **Syntax** Bar_Nom_Num_Movie Bar_Num_Num_Car Bar_Num_Num_Movie Bar_Ord_Num_Car Bar_Ord_Num_Movie Line_Nom_Num_Car Line_Nom_Num_Movie Line_Num_Num_Car Line_Num_Num_Movie Line_Ord_Num_Car Line_Ord_Num_Movie Pie_Nom_Num_Car Pie_Nom_Num_Movie Pie_Num_Num_Car Pie_Num_Num_Movie Pie_Ord_Num_Car Pie_Ord_Num_Movie Scatter_Nom_Num_Car Scatter_Nom_Num_Movie Scatter_Num_Num_Car Scatter_Num_Num_Movie Scatter_Ord_Num_Car Scatter_Ord_Num_Movie Table_Nom_Num_Car Table_Nom_Num_Movie Table_Num_Num_Car Table_Num_Num_Movie Table_Ord_Num_Car Table_Ord_Num_Movie /WSFACTOR=Visualizatio n 5 Polynomial DataAttributeType 3 Polynomial Datasets 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)

Page 3

/WSDESIGN=Visualizatio n DataAttributeType

Visualization*DataAttribute

Visualization*Datasets DataAttributeType*Dataset

Datasets

Type

Notes

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	Elapsed Time	00:00:00.03

[DataSet1] C:\Users\Bahador\Desktop\Analysis\EXtremum\Extremum_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	Datasets	Dependent Variable
1	1 1		Bar_Nom_Nu m_Car
		2	Bar_Nom_Nu m_Movie
	2	1	Bar_Num_Nu m_Car
		2	Bar_Num_Nu m_Movie
	3	1	Bar_Ord_Nu m_Car
		2	Bar_Ord_Nu m_Movie
2	1	1	Line_Nom_Nu m_Car
		2	Line_Nom_Nu m_Movie
	2	1	Line_Num_Nu m_Car
		2	Line_Num_Nu m_Movie
	3	1	Line_Ord_Nu m_Car
		2	Line_Ord_Nu m_Movie
3	1	1	Pie_Nom_Nu m_Car
		2	Pie_Nom_Nu m_Movie

Within-Subjects Factors

Visualization	DataAttributeType	Datasets	Dependent Variable
	2	1	Pie_Num_Nu m_Car
		2	Pie_Num_Nu m_Movie
	3	1	Pie_Ord_Num _Car
		2	Pie_Ord_Num _Movie
4	1	1	Scatter_Nom_ Num_Car
		2	Scatter_Nom_ Num_Movie
	2	1	Scatter_Num_ Num_Car
		2	Scatter_Num_ Num_Movie
	3	1	Scatter_Ord_ Num_Car
		2	Scatter_Ord_ Num_Movie
5	1	1	Table_Nom_ Num_Car
		2	Table_Nom_ Num_Movie
	2	1	Table_Num_ Num_Car
		2	Table_Num_ Num_Movie
	3	1	Table_Ord_N um_Car
		2	Table_Ord_N um_Movie

Descriptive Statistics

	Mean	Std. Deviation	N
Bar_Nom_Num_Car	100.0000	.00000	18
Bar_Nom_Num_Movie	72.2222	46.08886	18
Bar_Num_Num_Car	100.0000	.00000	18
Bar_Num_Num_Movie	100.0000	.00000	18
Bar_Ord_Num_Car	94.4444	23.57023	18
Bar_Ord_Num_Movie	100.0000	.00000	18
Line_Nom_Num_Car	100.0000	.00000	18
Line_Nom_Num_Movie	100.0000	.00000	18
Line_Num_Num_Car	72.2222	46.08886	18
Line_Num_Num_Movie	83.3333	38.34825	18
Line_Ord_Num_Car	100.0000	.00000	18
Line_Ord_Num_Movie	100.0000	.00000	18
Pie_Nom_Num_Car	94.4444	23.57023	18
Pie_Nom_Num_Movie	95.0000	21.21320	18
Pie_Num_Num_Car	88.8889	32.33808	18
Pie_Num_Num_Movie	88.8889	32.33808	18
Pie_Ord_Num_Car	94.4444	23.57023	18
Pie_Ord_Num_Movie	100.0000	.00000	18
Scatter_Nom_Num_Car	94.4444	23.57023	18
Scatter_Nom_Num_Movie	100.0000	.00000	18
Scatter_Num_Num_Car	88.8889	32.33808	18
Scatter_Num_Num_Movie	94.4444	23.57023	18
Scatter_Ord_Num_Car	94.4444	23.57023	18
Scatter_Ord_Num_Movie	94.4444	23.57023	18
Table_Nom_Num_Car	100.0000	.00000	18
Table_Nom_Num_Movie	100.0000	.00000	18
Table_Num_Num_Car	83.3333	38.34825	18
Table_Num_Num_Movie	77.7778	42.77926	18
Table_Ord_Num_Car	100.0000	.00000	18
Table_Ord_Num_Movie	100.0000	.00000	18

Multivariate Tests^a

T#a at		Value	F	Llypothosis df	Error df
Effect Visualization	Pillai's Trace	Value .041	.152 ^b	Hypothesis df 4.000	14.000
VISUAIIZALIOII			.152 ^b		
	Wilks' Lambda	.959		4.000	14.000
	Hotelling's Trace	.043	.152 ^b	4.000	14.000
	Roy's Largest Root	.043	.152 ^b	4.000	14.000
DataAttributeType	Pillai's Trace	.503	8.100 ^b	2.000	16.000
	Wilks' Lambda	.497	8.100 ^b	2.000	16.000
	Hotelling's Trace	1.013	8.100 ^b	2.000	16.000
	Roy's Largest Root	1.013	8.100 ^b	2.000	16.000
Datasets	Pillai's Trace	.000	.000 ^b	1.000	17.000
	Wilks' Lambda	1.000	.000 ^b	1.000	17.000
	Hotelling's Trace	.000	.000 ^b	1.000	17.000
	Roy's Largest Root	.000	.000 ^b	1.000	17.000
Visualization *	Pillai's Trace	.606	2.417 ^b	7.000	11.000
DataAttributeType	Wilks' Lambda	.394	2.417 ^b	7.000	11.000
	Hotelling's Trace	1.538	2.417 ^b	7.000	11.000
	Roy's Largest Root	1.538	2.417 ^b	7.000	11.000
Visualization * Datasets	Pillai's Trace	.249	1.160 ^b	4.000	14.000
	Wilks' Lambda	.751	1.160 ^b	4.000	14.000
	Hotelling's Trace	.332	1.160 ^b	4.000	14.000
	Roy's Largest Root	.332	1.160 ^b	4.000	14.000
DataAttributeType *	Pillai's Trace	.199	1.982 ^b	2.000	16.000
Datasets	Wilks' Lambda	.801	1.982 ^b	2.000	16.000
	Hotelling's Trace	.248	1.982 ^b	2.000	16.000
	Roy's Largest Root	.248	1.982 ^b	2.000	16.000
Visualization *	Pillai's Trace	.313	.714 ^b	7.000	11.000
DataAttributeType * Datasets	Wilks' Lambda	.687	.714 ^b	7.000	11.000
	Hotelling's Trace	.455	.714 ^b	7.000	11.000
	Roy's Largest Root	.455	.714 ^b	7.000	11.000

Multivariate Tests^a

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Visualization	Pillai's Trace	.959	.041	.606
	Wilks' Lambda	.959	.041	.606
	Hotelling's Trace	.959	.041	.606
	Roy's Largest Root	.959	.041	.606
DataAttributeType	Pillai's Trace	.004	.503	16.201
	Wilks' Lambda	.004	.503	16.201
	Hotelling's Trace	.004	.503	16.201
	Roy's Largest Root	.004	.503	16.201
Datasets	Pillai's Trace	.984	.000	.000
	Wilks' Lambda	.984	.000	.000
	Hotelling's Trace	.984	.000	.000
	Roy's Largest Root	.984	.000	.000
Visualization *	Pillai's Trace	.092	.606	16.916
DataAttributeType	Wilks' Lambda	.092	.606	16.916
	Hotelling's Trace	.092	.606	16.916
	Roy's Largest Root	.092	.606	16.916
Visualization * Datasets	Pillai's Trace	.370	.249	4.641
	Wilks' Lambda	.370	.249	4.641
	Hotelling's Trace	.370	.249	4.641
	Roy's Largest Root	.370	.249	4.641
DataAttributeType *	Pillai's Trace	.170	.199	3.963
Datasets	Wilks' Lambda	.170	.199	3.963
	Hotelling's Trace	.170	.199	3.963
	Roy's Largest Root	.170	.199	3.963
Visualization *	Pillai's Trace	.663	.313	5.001
DataAttributeType * Datasets	Wilks' Lambda	.663	.313	5.001
	Hotelling's Trace	.663	.313	5.001
	Roy's Largest Root	.663	.313	5.001

Multivariate Tests^a

Effect		Observed Power ^c
Visualization	Pillai's Trace	.073
	Wilks' Lambda	.073
	Hotelling's Trace	.073
	Roy's Largest Root	.073
DataAttributeType	Pillai's Trace	.915
	Wilks' Lambda	.915
	Hotelling's Trace	.915
	Roy's Largest Root	.915
Datasets	Pillai's Trace	.050
	Wilks' Lambda	.050
	Hotelling's Trace	.050
	Roy's Largest Root	.050
Visualization *	Pillai's Trace	.596
DataAttributeType	Wilks' Lambda	.596
	Hotelling's Trace	.596
	Roy's Largest Root	.596
Visualization * Datasets	Pillai's Trace	.273
	Wilks' Lambda	.273
	Hotelling's Trace	.273
	Roy's Largest Root	.273
DataAttributeType *	Pillai's Trace	.349
Datasets	Wilks' Lambda	.349
	Hotelling's Trace	.349
	Roy's Largest Root	.349
Visualization *	Pillai's Trace	.190
DataAttributeType * Datasets	Wilks' Lambda	.190
	Hotelling's Trace	.190
	Roy's Largest Root	.190

a. Design: Intercept

Within Subjects Design: Visualization + DataAttributeType + Datasets + Visualization * DataAttributeType + Visualization * DataSets + DataAttributeType * Datasets + Visualization * DataAttributeType * Datasets

b. Exact statistic

C.

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	.707	5.340	9	.805	.830
DataAttributeType	.587	8.528	2	.014	.708
Datasets	1.000	.000	0		1.000
Visualization * DataAttributeType	.000		35		.521
Visualization * Datasets	.451	12.271	9	.201	.689
DataAttributeType * Datasets	.881	2.028	2	.363	.894
Visualization * DataAttributeType * Datasets	.000		35		.434

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Epsilon^b

Within Subjects Effect	Huynh-Feldt	Lower-bound
Visualization	1.000	.250
DataAttributeType	.753	.500
Datasets	1.000	1.000
Visualization * DataAttributeType	.711	.125
Visualization * Datasets	.835	.250
DataAttributeType * Datasets	.992	.500
Visualization * DataAttributeType * Datasets	.559	.125

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 + Datasets + Visualization * DataAttributeType + Visualization * DataSets + DataAttributeType * Datasets + Visualization * DataAttributeType * Datasets
- 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.

Tests of Within-Subjects Effects

Source		Type III Sum of Squares	df	Mean Square	F
Visualization	Sphericity Assumed	256.296	4	64.074	.127
	Greenhouse-Geisser	256.296	3.322	77.157	.127
	Huynh-Feldt	256.296	4.000	64.074	.127
	Lower-bound	256.296	1.000	256.296	.127
Error(Visualization)	Sphericity Assumed	34290.370	68	504.270	
	Greenhouse-Geisser	34290.370	56.470	607.236	
	Huynh-Feldt	34290.370	68.000	504.270	
	Lower-bound	34290.370	17.000	2017.081	
DataAttributeType	Sphericity Assumed	9963.333	2	4981.667	9.387
	Greenhouse-Geisser	9963.333	1.415	7039.883	9.387
	Huynh-Feldt	9963.333	1.506	6614.561	9.387
	Lower-bound	9963.333	1.000	9963.333	9.387
Error(DataAttributeType)	Sphericity Assumed	18043.333	34	530.686	
	Greenhouse-Geisser	18043.333	24.060	749.944	
	Huynh-Feldt	18043.333	25.607	704.635	
	Lower-bound	18043.333	17.000	1061.373	
Datasets	Sphericity Assumed	.185	1	.185	.000
	Greenhouse-Geisser	.185	1.000	.185	.000
	Huynh-Feldt	.185	1.000	.185	.000
	Lower-bound	.185	1.000	.185	.000
Error(Datasets)	Sphericity Assumed	7936.481	17	466.852	
	Greenhouse-Geisser	7936.481	17.000	466.852	
	Huynh-Feldt	7936.481	17.000	466.852	
	Lower-bound	7936.481	17.000	466.852	
Visualization *	Sphericity Assumed	16723.704	8	2090.463	4.183
DataAttributeType	Greenhouse-Geisser	16723.704	4.167	4013.232	4.183

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Visualization	Sphericity Assumed	.972	.007	.508
Visualization	Greenhouse-Geisser	.955	.007	.422
		.955	.007	.508
	Huynh-Feldt	_		
F	Lower-bound	.726	.007	.127
Error(Visualization)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
DataAttributeType	Sphericity Assumed	.001	.356	18.774
	Greenhouse-Geisser	.002	.356	13.285
	Huynh-Feldt	.002	.356	14.140
	Lower-bound	.007	.356	9.387
Error(DataAttributeType)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Datasets	Sphericity Assumed	.984	.000	.000
	Greenhouse-Geisser	.984	.000	.000
	Huynh-Feldt	.984	.000	.000
	Lower-bound	.984	.000	.000
Error(Datasets)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Visualization *	Sphericity Assumed	.000	.197	33.462
DataAttributeType	Greenhouse-Geisser	.004	.197	17.430

Source		Observed Power ^a
Visualization	Sphericity Assumed	.075
	Greenhouse-Geisser	.073
	Huynh-Feldt	.075
	Lower-bound	.063
Error(Visualization)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
DataAttributeType	Sphericity Assumed	.968
	Greenhouse-Geisser	.911
	Huynh-Feldt	.924
	Lower-bound	.823
Error(DataAttributeType)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
Datasets	Sphericity Assumed	.050
	Greenhouse-Geisser	.050
	Huynh-Feldt	.050
	Lower-bound	.050
Error(Datasets)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
Visualization *	Sphericity Assumed	.992
DataAttributeType	Greenhouse-Geisser	.913

Source		Type III Sum of Squares	df	Mean Square	F
	Huynh-Feldt	16723.704	5.689	2939.559	4.183
	Lower-bound	16723.704	1.000	16723.704	4.183
Error	Sphericity Assumed	67969.630	136	499.777	
(Visualization*DataAttribute	Greenhouse-Geisser	67969.630	70.841	959.462	
Type)	Huynh-Feldt	67969.630	96.716	702.774	
	Lower-bound	67969.630	17.000	3998.214	
Visualization * Datasets	Sphericity Assumed	2426.667	4	606.667	1.146
	Greenhouse-Geisser	2426.667	2.754	881.102	1.146
	Huynh-Feldt	2426.667	3.340	726.653	1.146
	Lower-bound	2426.667	1.000	2426.667	1.146
Error	Sphericity Assumed	35986.667	68	529.216	
(Visualization*Datasets)	Greenhouse-Geisser	35986.667	46.820	768.615	
	Huynh-Feldt	35986.667	56.772	633.883	
	Lower-bound	35986.667	17.000	2116.863	
DataAttributeType *	Sphericity Assumed	1289.259	2	644.630	1.503
Datasets	Greenhouse-Geisser	1289.259	1.787	721.374	1.503
	Huynh-Feldt	1289.259	1.983	650.088	1.503
	Lower-bound	1289.259	1.000	1289.259	1.503
Error	Sphericity Assumed	14584.074	34	428.943	
(DataAttributeType*Dataset s)	Greenhouse-Geisser	14584.074	30.383	480.010	
3)	Huynh-Feldt	14584.074	33.715	432.576	
	Lower-bound	14584.074	17.000	857.887	
Visualization *	Sphericity Assumed	5731.111	8	716.389	1.070
DataAttributeType * Datasets	Greenhouse-Geisser	5731.111	3.473	1650.384	1.070
Datasets	Huynh-Feldt	5731.111	4.473	1281.298	1.070
	Lower-bound	5731.111	1.000	5731.111	1.070
Error	Sphericity Assumed	91095.556	136	669.820	
(Visualization*DataAttribute Type*Datasets)	Greenhouse-Geisser	91095.556	59.034	1543.101	
Type Datasets)	Huynh-Feldt	91095.556	76.039	1198.007	
	Lower-bound	91095.556	17.000	5358.562	

Source		Sig.	Partial Eta Squared	Noncent. Parameter
	Huynh-Feldt	.001	.197	23.797
	Lower-bound	.057	.197	4.183
Error	Sphericity Assumed			
(Visualization*DataAttribute Type)	Greenhouse-Geisser			
1,400)	Huynh-Feldt			
	Lower-bound			
Visualization * Datasets	Sphericity Assumed	.342	.063	4.585
	Greenhouse-Geisser	.338	.063	3.157
	Huynh-Feldt	.341	.063	3.828
	Lower-bound	.299	.063	1.146
Error	Sphericity Assumed			
(Visualization*Datasets)	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
DataAttributeType *	Sphericity Assumed	.237	.081	3.006
Datasets	Greenhouse-Geisser	.239	.081	2.686
	Huynh-Feldt	.237	.081	2.980
	Lower-bound	.237	.081	1.503
Error	Sphericity Assumed			
(DataAttributeType*Dataset s)	Greenhouse-Geisser			
3)	Huynh-Feldt			
	Lower-bound			
Visualization *	Sphericity Assumed	.388	.059	8.556
DataAttributeType * Datasets	Greenhouse-Geisser	.375	.059	3.714
Datasets	Huynh-Feldt	.381	.059	4.784
	Lower-bound	.316	.059	1.070
Error	Sphericity Assumed			
(Visualization*DataAttribute Type*Datasets)	Greenhouse-Geisser			
Type Datasets)	Huynh-Feldt			
	Lower-bound			

Source		Observed Power ^a
	Huynh-Feldt	.966
	Lower-bound	.488
Error	Sphericity Assumed	
(Visualization*DataAttribute Type)	Greenhouse-Geisser	
Турсу	Huynh-Feldt	
	Lower-bound	
Visualization * Datasets	Sphericity Assumed	.342
	Greenhouse-Geisser	.277
	Huynh-Feldt	.308
	Lower-bound	.173
Error (Visualization*Datasets)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
DataAttributeType *	Sphericity Assumed	.298
Datasets	Greenhouse-Geisser	.281
	Huynh-Feldt	.296
	Lower-bound	.212
Error	Sphericity Assumed	
(DataAttributeType*Dataset s)	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
Visualization *	Sphericity Assumed	.482
DataAttributeType * Datasets	Greenhouse-Geisser	.295
	Huynh-Feldt	.341
	Lower-bound	.164
Error	Sphericity Assumed	
(Visualization*DataAttribute Type*Datasets)	Greenhouse-Geisser	
Typo Datasots)	Huynh-Feldt	
	Lower-bound	

a. Computed using alpha = .05

				Type III Sum of	
Source	Visualization	DataAttributeType	Datasets	Squares	df
Visualization	Linear			.000	1
	Quadratic			21.429	1
	Cubic			231.481	1
	Order 4			3.386	1
Error(Visualization)	Linear			9333.333	17
	Quadratic			9792.857	17
	Cubic			6268.519	17
	Order 4			8895.661	17
DataAttributeType		Linear		422.500	1
		Quadratic		9540.833	1
Error(DataAttributeType)		Linear		3582.500	17
		Quadratic		14460.833	17
Datasets			Linear	.185	1
Error(Datasets)			Linear	7936.481	17
Visualization *	Linear	Linear		1125.000	1
DataAttributeType		Quadratic		3375.000	1
	Quadratic	Linear		514.286	1
		Quadratic		576.190	1
	Cubic	Linear		55.556	1
		Quadratic		9796.296	1
	Order 4	Linear		356.270	1
		Quadratic		925.106	1
Error	Linear	Linear		3625.000	17
(Visualization*DataAttribute		Quadratic		10541.667	17
Type)	Quadratic	Linear		4242.857	17
		Quadratic		7438.095	17
	Cubic	Linear		3944.444	17
		Quadratic		14203.704	17
	Order 4	Linear		6656.587	17
		Quadratic		17317.275	17
Visualization * Datasets	Linear		Linear	333.333	1
2 4140010	Quadratic		Linear	1735.714	<u>·</u> 1
	Cubic		Linear	83.333	<u>·</u> 1
	30.0.0			30.000	

Source	Visualization	DataAttributeType	Datasets	Mean Square	F
Visualization	Linear			.000	.000
	Quadratic			21.429	.037
	Cubic			231.481	.628
	Order 4			3.386	.006
Error(Visualization)	Linear			549.020	
	Quadratic			576.050	
	Cubic			368.736	
	Order 4			523.274	
DataAttributeType		Linear		422.500	2.005
		Quadratic		9540.833	11.216
Error(DataAttributeType)		Linear		210.735	
		Quadratic		850.637	
Datasets			Linear	.185	.000
Error(Datasets)			Linear	466.852	
Visualization *	Linear	Linear		1125.000	5.276
DataAttributeType		Quadratic		3375.000	5.443
	Quadratic	Linear		514.286	2.061
		Quadratic		576.190	1.317
	Cubic	Linear		55.556	.239
		Quadratic		9796.296	11.725
	Order 4	Linear		356.270	.910
		Quadratic		925.106	.908
Error	Linear	Linear		213.235	
(Visualization*DataAttribute Type)		Quadratic		620.098	
) i - /	Quadratic	Linear		249.580	
		Quadratic		437.535	
	Cubic	Linear		232.026	
		Quadratic		835.512	
	Order 4	Linear		391.564	
		Quadratic		1018.663	
Visualization * Datasets	Linear		Linear	333.333	.680
	Quadratic		Linear	1735.714	2.200
	Cubic		Linear	83.333	.200
	Order 4		Linear	274.286	.651

Source	Visualization	DataAttributeType	Datasets	Sig.	Partial Eta Squared
Visualization	Linear			1.000	.000
	Quadratic			.849	.002
	Cubic			.439	.036
	Order 4			.937	.000
Error(Visualization)	Linear				
	Quadratic				
	Cubic				
	Order 4				
DataAttributeType		Linear		.175	.105
		Quadratic		.004	.398
Error(DataAttributeType)		Linear			
		Quadratic			
Datasets			Linear	.984	.000
Error(Datasets)			Linear		
Visualization *	Linear	Linear		.035	.237
DataAttributeType		Quadratic		.032	.243
	Quadratic	Linear		.169	.108
		Quadratic		.267	.072
	Cubic	Linear		.631	.014
		Quadratic		.003	.408
	Order 4	Linear		.354	.051
		Quadratic		.354	.051
Error	Linear	Linear			
(Visualization*DataAttribute Type)		Quadratic			
.,,,,	Quadratic	Linear			
		Quadratic			
	Cubic	Linear			
		Quadratic			
	Order 4	Linear			
		Quadratic			
Visualization * Datasets	Linear		Linear	.421	.038
	Quadratic		Linear	.156	.115
	Cubic		Linear	.660	.012
	Order 4		Linear	.431	.037

Source	Visualization	DataAttributeType	Datasets	Noncent. Parameter
Visualization	Linear			.000
	Quadratic			.037
	Cubic			.628
	Order 4			.006
Error(Visualization)	Linear			
	Quadratic			
	Cubic			
	Order 4			
DataAttributeType		Linear		2.005
		Quadratic		11.216
Error(DataAttributeType)		Linear		
		Quadratic		
Datasets			Linear	.000
Error(Datasets)			Linear	
Visualization *	Linear	Linear		5.276
DataAttributeType		Quadratic		5.443
	Quadratic	Linear		2.061
		Quadratic		1.317
	Cubic	Linear		.239
		Quadratic		11.725
	Order 4	Linear		.910
		Quadratic		.908
Error	Linear	Linear		
(Visualization*DataAttribute Type)		Quadratic		
- 7 F - 7	Quadratic	Linear		
		Quadratic		
	Cubic	Linear		
		Quadratic		
	Order 4	Linear		
		Quadratic		
Visualization * Datasets	Linear		Linear	.680
	Quadratic		Linear	2.200
	Cubic		Linear	.200
	Order 4		Linear	.651

Source	Visualization	DataAttributeType	Datasets	Observed Power ^a
Visualization	Linear			.050
	Quadratic			.054
	Cubic			.116
	Order 4			.051
Error(Visualization)	Linear			
	Quadratic			
	Cubic			
	Order 4			
DataAttributeType		Linear		.267
		Quadratic		.884
Error(DataAttributeType)		Linear		
		Quadratic		
Datasets			Linear	.050
Error(Datasets)			Linear	
Visualization *	Linear	Linear		.582
DataAttributeType		Quadratic		.595
	Quadratic	Linear		.273
		Quadratic		.192
	Cubic	Linear		.075
		Quadratic		.897
	Order 4	Linear		.147
		Quadratic		.147
Error	Linear	Linear		
(Visualization*DataAttribute Type)		Quadratic		
1,700)	Quadratic	Linear		
		Quadratic		
	Cubic	Linear		
		Quadratic		
	Order 4	Linear		
		Quadratic		
Visualization * Datasets	Linear		Linear	.122
	Quadratic		Linear	.288
	Cubic		Linear	.071
	Order 4		Linear	.119

Source	Visualization	DataAttributeType	Datasets	Type III Sum of Squares	df
Error	Linear		Linear	8333.333	17
(Visualization*Datasets)	Quadratic		Linear	13411.905	17
	Cubic		Linear	7083.333	17
	Order 4		Linear	7158.095	17
DataAttributeType *		Linear	Linear	966.944	1
Datasets		Quadratic	Linear	322.315	1
Error		Linear	Linear	4838.056	17
<pre>(DataAttributeType*Dataset s)</pre>		Quadratic	Linear	9746.019	17
Visualization *	Linear	Linear	Linear	2347.222	1
DataAttributeType * Datasets		Quadratic	Linear	1041.667	1
Bataooto	Quadratic	Linear	Linear	1244.444	1
		Quadratic	Linear	4.762	1
	Cubic	Linear	Linear	222.222	1
		Quadratic	Linear	2.910E-11	1
	Order 4	Linear	Linear	470.556	1
		Quadratic	Linear	400.238	1
Error	Linear	Linear	Linear	8402.778	17
(Visualization*DataAttribute Type*Datasets)		Quadratic	Linear	19541.667	17
. ype Databoto,	Quadratic	Linear	Linear	9084.127	17
		Quadratic	Linear	14247.619	17
	Cubic	Linear	Linear	2777.778	17
		Quadratic	Linear	12333.333	17
	Order 4	Linear	Linear	4170.873	17
		Quadratic	Linear	20537.381	17

_					
Source	Visualization	DataAttributeType	Datasets	Mean Square	F
Error	Linear		Linear	490.196	
(Visualization*Datasets)	Quadratic		Linear	788.936	
	Cubic		Linear	416.667	
	Order 4		Linear	421.064	
DataAttributeType *		Linear	Linear	966.944	3.398
Datasets		Quadratic	Linear	322.315	.562
Error		Linear	Linear	284.592	
(DataAttributeType*Dataset s)		Quadratic	Linear	573.295	
Visualization *	Linear	Linear	Linear	2347.222	4.749
DataAttributeType * Datasets		Quadratic	Linear	1041.667	.906
Bataooto	Quadratic	Linear	Linear	1244.444	2.329
		Quadratic	Linear	4.762	.006
	Cubic	Linear	Linear	222.222	1.360
		Quadratic	Linear	2.910E-11	.000
	Order 4	Linear	Linear	470.556	1.918
		Quadratic	Linear	400.238	.331
Error	Linear	Linear	Linear	494.281	
(Visualization*DataAttribute Type*Datasets)		Quadratic	Linear	1149.510	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Quadratic	Linear	Linear	534.360	
		Quadratic	Linear	838.095	
	Cubic	Linear	Linear	163.399	
		Quadratic	Linear	725.490	
	Order 4	Linear	Linear	245.345	
		Quadratic	Linear	1208.081	

Source	Visualization	DataAttributeType	Datasets	Sig.	Partial Eta Squared
Error	Linear	DataAttribute rype	Linear	Oig.	Oquarea
(Visualization*Datasets)	Quadratic		Linear		
	Cubic		Linear		
	Order 4		Linear		
DataAttributeType *	Oldor 1	Linear	Linear	.083	.167
Datasets		Quadratic	Linear	.464	.032
Error		Linear	Linear	10-1	.002
(DataAttributeType*Dataset					
s)		Quadratic	Linear		
Visualization *	Linear	Linear	Linear	.044	.218
DataAttributeType * Datasets		Quadratic	Linear	.354	.051
	Quadratic	Linear	Linear	.145	.120
		Quadratic	Linear	.941	.000
	Cubic	Linear	Linear	.260	.074
		Quadratic	Linear	1.000	.000
	Order 4	Linear	Linear	.184	.101
		Quadratic	Linear	.572	.019
Error	Linear	Linear	Linear		
(Visualization*DataAttribute Type*Datasets)		Quadratic	Linear		
Type Datasets)	Quadratic	Linear	Linear		
		Quadratic	Linear		
	Cubic	Linear	Linear		
		Quadratic	Linear		
	Order 4	Linear	Linear		
		Quadratic	Linear		

	Viewelinetien	Data Attaik uta Tuna	Datasata	Noncent. Parameter
Source	Visualization	DataAttributeType	Datasets	Farameter
Error (Visualization*Datasets)	Linear		Linear	
·	Quadratic		Linear	
	Cubic		Linear	
	Order 4		Linear	
DataAttributeType *		Linear	Linear	3.398
Datasets		Quadratic	Linear	.562
Error		Linear	Linear	
(DataAttributeType*Dataset s)		Quadratic	Linear	
Visualization *	Linear	Linear	Linear	4.749
DataAttributeType * Datasets		Quadratic	Linear	.906
	Quadratic	Linear	Linear	2.329
		Quadratic	Linear	.006
	Cubic	Linear	Linear	1.360
		Quadratic	Linear	.000
	Order 4	Linear	Linear	1.918
		Quadratic	Linear	.331
Error	Linear	Linear	Linear	
(Visualization*DataAttribute Type*Datasets)		Quadratic	Linear	
	Quadratic	Linear	Linear	
		Quadratic	Linear	
	Cubic	Linear	Linear	
		Quadratic	Linear	
	Order 4	Linear	Linear	
		Quadratic	Linear	

Source	Visualization	DataAttributeType	Datasets	Observed Power ^a
Error	Linear		Linear	
(Visualization*Datasets)	Quadratic		Linear	
	Cubic		Linear	
	Order 4		Linear	
DataAttributeType *		Linear	Linear	.413
Datasets		Quadratic	Linear	.109
Error		Linear	Linear	
(DataAttributeType*Dataset s)		Quadratic	Linear	
Visualization *	Linear	Linear	Linear	.538
DataAttributeType * Datasets		Quadratic	Linear	.146
	Quadratic	Linear	Linear	.302
		Quadratic	Linear	.051
	Cubic	Linear	Linear	.196
		Quadratic	Linear	.050
	Order 4	Linear	Linear	.258
		Quadratic	Linear	.084
Error	Linear	Linear	Linear	
(Visualization*DataAttribute Type*Datasets)		Quadratic	Linear	
	Quadratic	Linear	Linear	
		Quadratic	Linear	
	Cubic	Linear	Linear	
		Quadratic	Linear	
	Order 4	Linear	Linear	
		Quadratic	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	4743281.667	1	4743281.667	7663.785	.000	.998
Error	10521.667	17	618.922			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power ^a
Intercept	7663.785	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		
93.722	1.071	91.463	95.981		

2. Visualization

Estimates

			95% Confidence Interval		
Visualization	Mean	Std. Error	Lower Bound	Upper Bound	
1	94.444	2.334	89.521	99.368	
2	92.593	2.009	88.355	96.830	
3	93.611	2.366	88.620	98.602	
4	94.444	2.334	89.521	99.368	
5	93.519	1.971	89.361	97.676	

Pairwise Comparisons

Measure. MEAS	JONE_1				95% Confidence ^a
(I) Visualization	(J) Visualization	Mean Difference (I-J)	Std. Error	Sig. ^a	Lower Bound
1	2	1.852	2.657	1.000	-6.711
	3	.833	3.901	1.000	-11.738
	4	-7.105E-15	3.013	1.000	-9.709
	5	.926	3.152	1.000	-9.231
2	1	-1.852	2.657	1.000	-10.414
	3	-1.019	3.428	1.000	-12.064
	4	-1.852	2.657	1.000	-10.414
	5	926	2.849	1.000	-10.108
3	1	833	3.901	1.000	-13.405
	2	1.019	3.428	1.000	-10.027
	4	833	2.853	1.000	-10.026
	5	.093	2.984	1.000	-9.523
4	1	7.105E-15	3.013	1.000	-9.709
	2	1.852	2.657	1.000	-6.711
	3	.833	2.853	1.000	-8.359
	5	.926	2.849	1.000	-8.256
5	1	926	3.152	1.000	-11.083
	2	.926	2.849	1.000	-8.256
	3	093	2.984	1.000	-9.709
	4	926	2.849	1.000	-10.108

Pairwise Comparisons

Measure: MEASURE_1

95% Confidence Interval for ^a...

(I) Visualization	(J) Visualization	Upper Bound
1	2	10.414
	3	13.405
	4	9.709
	5	11.083
2	1	6.711
	3	10.027
	4	6.711
	5	8.256
3	1	11.738
	2	12.064
	4	8.359
	5	9.709
4	1	9.709
	2	10.414
	3	10.026
	5	10.108
5	1	9.231
	2	10.108
	3	9.523
	4	8.256

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.041	.152 ^a	4.000	14.000	.959	.041
Wilks' lambda	.959	.152 ^a	4.000	14.000	.959	.041
Hotelling's trace	.043	.152 ^a	4.000	14.000	.959	.041
Roy's largest root	.043	.152 ^a	4.000	14.000	.959	.041

Multivariate Tests

	Noncent. Parameter	Observed Power ^b
Pillai's trace	.606	.073
Wilks' lambda	.606	.073
Hotelling's trace	.606	.073
Roy's largest root	.606	.073

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	95.611	1.440	92.574	98.649	
2	87.778	2.499	82.505	93.050	
3	97.778	1.008	95.650	99.905	

Pairwise Comparisons

Measure: MEASURE_1

(I) DataAttributeType	(J) DataAttributeType	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence ^b Lower Bound
1	2	7.833	2.969	.052	048
	3	-2.167	1.530	.525	-6.229
2	1	-7.833	2.969	.052	-15.715
	3	-10.000 [*]	2.557	.003	-16.788
3	1	2.167	1.530	.525	-1.896
	2	10.000*	2.557	.003	3.212

Pairwise Comparisons

Measure: MEASURE_1

95% Confidence Interval for ^b...

(I) DataAttributeType	(J) DataAttributeType	Upper Bound
1	2	15.715
	3	1.896
2	1	.048
	3	-3.212
3	1	6.229
	2	16.788

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	.503	8.100 ^a	2.000	16.000	.004	.503
Wilks' lambda	.497	8.100 ^a	2.000	16.000	.004	.503
Hotelling's trace	1.013	8.100 ^a	2.000	16.000	.004	.503
Roy's largest root	1.013	8.100 ^a	2.000	16.000	.004	.503

Multivariate Tests

	Noncent. Parameter	Observed Power ^b	
Pillai's trace	16.201	.915	
Wilks' lambda	16.201	.915	
Hotelling's trace	16.201	.915	
Roy's largest root	16.201	.915	

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

Measure: MEASURE_1

				95% Confidence Interval	
Visualization	DataAttributeType	Mean	Std. Error	Lower Bound	Upper Bound
1	1	86.111	5.432	74.651	97.571
	2	100.000	.000	100.000	100.000
	3	97.222	2.778	91.362	103.083
2	1	100.000	.000	100.000	100.000
	2	77.778	6.026	65.064	90.491
	3	100.000	.000	100.000	100.000
3	1	94.722	3.626	87.072	102.373
	2	88.889	6.462	75.255	102.523
	3	97.222	2.778	91.362	103.083
4	1	97.222	2.778	91.362	103.083
	2	91.667	4.519	82.132	101.202
	3	94.444	3.811	86.404	102.485
5	1	100.000	.000	100.000	100.000
	2	80.556	5.912	68.083	93.028
	3	100.000	.000	100.000	100.000

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