```
GLM Size1 Size2 Size3 Size4
  /WSFACTOR=SizeOffset 4 Polynomial
  /MEASURE=Response
  /METHOD=SSTYPE(3)
  /PLOT=PROFILE(SizeOffset)
  /EMMEANS=TABLES(SizeOffset) COMPARE ADJ(BONFERRONI)
  /PRINT=DESCRIPTIVE ETASQ
  /CRITERIA=ALPHA(.05)
  /WSDESIGN=SizeOffset.
```

General Linear Model

Notes

Output Created		29-OCT-2018 17:48:41
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	7
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		GLM Size1 Size2 Size3 Size4 /WSFACTOR=SizeOffset 4 Polynomial /MEASURE=Response /METHOD=SSTYPE(3) /PLOT=PROFILE (SizeOffset) /EMMEANS=TABLES (SizeOffset) COMPARE ADJ(BONFERRONI) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=SizeOffset.

Notes

Resources	Processor Time	00:00:01.92
	Elapsed Time	00:00:00.86

[DataSet0]

Within-Subjects Factors

Measure: Response

SizeOffset	Dependent Variable
1	Size1
2	Size2
3	Size3
4	Size4

Descriptive Statistics

	Mean	Std. Deviation	N
Size1	1.6905	.35588	7
Size2	2.0714	.40089	7
Size3	2.7500	.47140	7
Size4	3.4643	.44581	7

Multivariate Tests[a]

Effect		Value	F	Hypothesis df	Error df	Sig.
SizeOffset	Pillai's Trace	.935	19.055[b]	3.000	4.000	.008
	Wilks' Lambda	.065	19.055[b]	3.000	4.000	.008
	Hotelling's Trace	14.292	19.055[b]	3.000	4.000	.008
	Roy's Largest Root	14.292	19.055[b]	3.000	4.000	.008

Multivariate Tests[a]

Effect		Partial Eta Squared
SizeOffset	Pillai's Trace	.935
	Wilks' Lambda	.935
	Hotelling's Trace	.935
	Roy's Largest Root	.935

a. Design: Intercept
Within Subjects Design: SizeOffset

b. Exact statistic

Mauchly's Test of Sphericity[a]

Measure: Response

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon[b] Greenhouse-Geisser
SizeOffset	.313	5.484	5	.369	.627

Mauchly's Test of Sphericity[a]

Measure: Response

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
SizeOffset	.903	.333

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: SizeOffset

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

Measure: Response

Source		Type III Sum of Squares	df	Mean Square	F
SizeOffset	Sphericity Assumed	12.818	3	4.273	35.255
	Greenhouse-Geisser	12.818	1.880	6.819	35.255
	Huynh-Feldt	12.818	2.709	4.733	35.255
	Lower-bound	12.818	1.000	12.818	35.255
Error(SizeOffset)	Sphericity Assumed	2.182	18	.121	
	Greenhouse-Geisser	2.182	11.280	.193	
	Huynh-Feldt	2.182	16.251	.134	
	Lower-bound	2.182	6.000	.364	

Tests of Within-Subjects Effects

Measure: Response

Source		Sig.	Partial Eta Squared
SizeOffset	Sphericity Assumed	.000	.855
	Greenhouse-Geisser	.000	.855
	Huynh-Feldt	.000	.855
	Lower-bound	.001	.855
Error(SizeOffset)	Sphericity Assumed		
	Greenhouse-Geisser		
	Huynh-Feldt		
	Lower-bound		

Tests of Within-Subjects Contrasts

Measure: Response

Source	SizeOffset	Type III Sum of Squares	df	Mean Square	F	Sig.
SizeOffset	Linear	12.600	1	12.600	53.628	.000
	Quadratic	.194	1	.194	2.000	.207
	Cubic	.024	1	.024	.764	.416
Error(SizeOffset)	Linear	1.410	6	.235		
	Quadratic	.583	6	.097		
	Cubic	.188	6	.031		

Tests of Within-Subjects Contrasts

Measure: Response

Source	SizeOffset	Partial Eta Squared
SizeOffset	Linear	.899
	Quadratic	.250
	Cubic	.113
Error(SizeOffset)	Linear	
	Quadratic	
	Cubic	

Tests of Between-Subjects Effects

Measure: Response

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	174.168	1	174.168	505.212	.000	.988
Error	2.068	6	.345			

Estimated Marginal Means

SizeOffset

Estimates

Measure: Response

SizeOffset	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	1.690	.135	1.361	2.020
2	2.071	.152	1.701	2.442
3	2.750	.178	2.314	3.186
4	3.464	.168	3.052	3.877

Pairwise Comparisons

Measure: Response

(I) SizeOffset	(J) SizeOffset	Mean Difference (I-J)	Std. Error	Sig.[b]	95% Confidence Interval for Difference[b]	
					Lower Bound	Upper Bound
1	2	-.381	.174	.429	-1.054	.292
	3	-1.060*	.221	.018	-1.913	-.206
	4	-1.774*	.258	.003	-2.769	-.779
2	1	.381	.174	.429	-.292	1.054
	3	-.679*	.099	.003	-1.060	-.297
	4	-1.393*	.166	.001	-2.036	-.750
3	1	1.060*	.221	.018	.206	1.913
	2	.679*	.099	.003	.297	1.060
	4	-.714*	.157	.024	-1.322	-.107
4	1	1.774*	.258	.003	.779	2.769
	2	1.393*	.166	.001	.750	2.036
	3	.714*	.157	.024	.107	1.322

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Bonferroni.

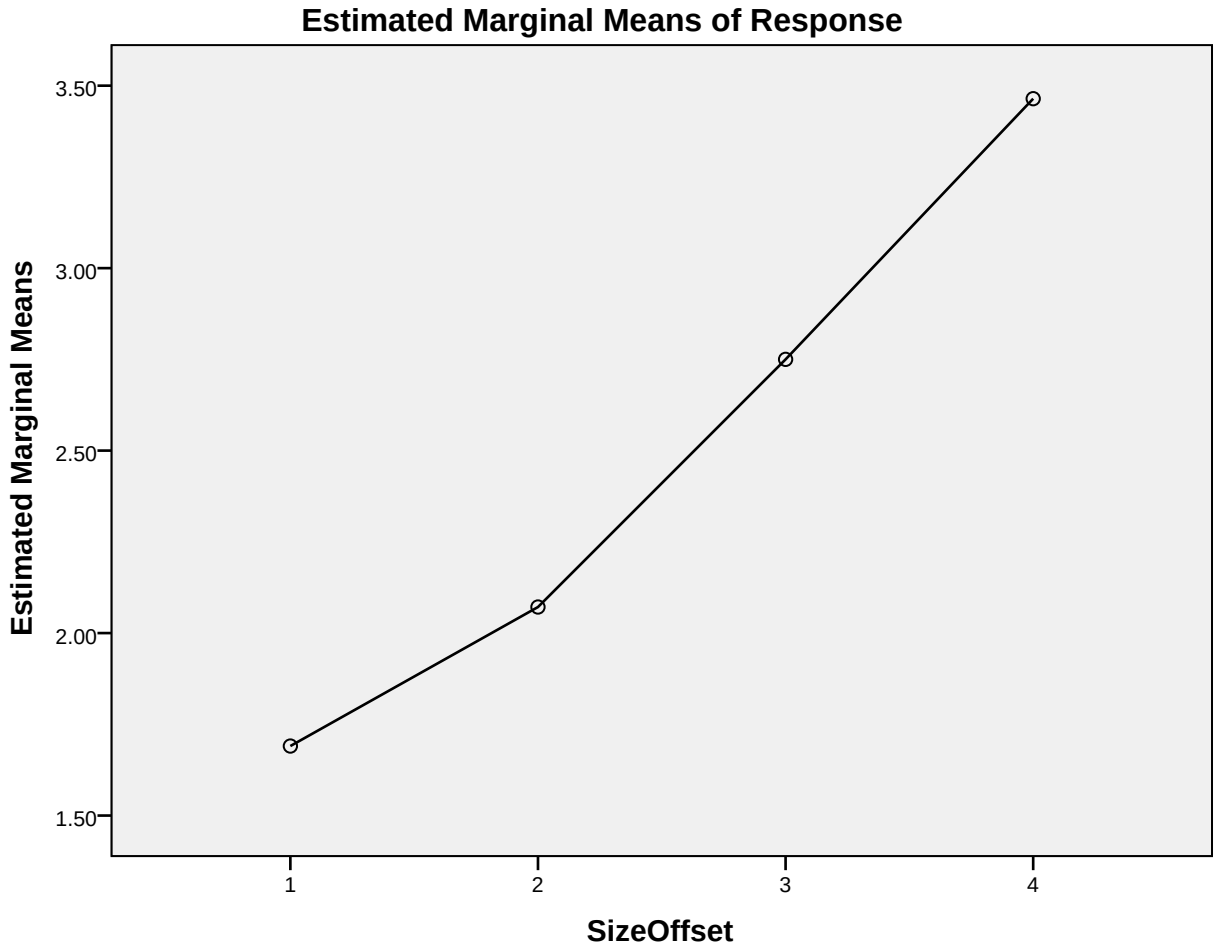
Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.935	19.055[a]	3.000	4.000	.008	.935
Wilks' lambda	.065	19.055[a]	3.000	4.000	.008	.935
Hotelling's trace	14.292	19.055[a]	3.000	4.000	.008	.935
Roy's largest root	14.292	19.055[a]	3.000	4.000	.008	.935

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

a. Exact statistic

Profile Plots


Estimated Marginal Means of Response
Estimated Marginal Means
3.50
3.00
2.50
2.00
1.50
1
2
3
4
SizeOffset