

General Linear Model

Notes

Output Created		03-DEC-2023 19:16:48
Comments		
Input	Data	D:\Users\Maxh1023\Documents\DSCI517\NewData.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	67
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 Before After BY Scenario /WSFACTOR=Time 2 Polynomial /METHOD=SSTYPE(3) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=Time /DESIGN=Scenario.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

[DataSet1] D:\Users\Maxh1023\Documents\DSCI517\NewData.sav

Within-Subjects Factors

Measure: MEASURE_1

Time	Dependent Variable
1	Before
2	After

Between-Subjects Factors

N		
Scenario	1	36
	2	31

Descriptive Statistics

Scenario		Mean	Std. Deviation	N
Before	1	4.75	5.299	36
	2	4.45	4.146	31
	Total	4.61	4.767	67
After	1	9.42	6.959	36
	2	7.52	6.607	31
	Total	8.54	6.814	67

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Time	Pillai's Trace	.508	67.139 ^b	1.000	65.000	<.001
	Wilks' Lambda	.492	67.139 ^b	1.000	65.000	<.001
	Hotelling's Trace	1.033	67.139 ^b	1.000	65.000	<.001
	Roy's Largest Root	1.033	67.139 ^b	1.000	65.000	<.001
Time * Scenario	Pillai's Trace	.042	2.883 ^b	1.000	65.000	.094
	Wilks' Lambda	.958	2.883 ^b	1.000	65.000	.094
	Hotelling's Trace	.044	2.883 ^b	1.000	65.000	.094
	Roy's Largest Root	.044	2.883 ^b	1.000	65.000	.094

Multivariate Tests^a

Effect		Partial Eta Squared
Time	Pillai's Trace	.508
	Wilks' Lambda	.508
	Hotelling's Trace	.508
	Roy's Largest Root	.508
Time * Scenario	Pillai's Trace	.042
	Wilks' Lambda	.042
	Hotelling's Trace	.042
	Roy's Largest Root	.042

- a. Design: Intercept + Scenario
Within Subjects Design: Time
- b. Exact statistic

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b Greenhouse-Geisser
Time	1.000	.000	0	.	1.000

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Epsilon ^b	
	Huynh-Feldt	Lower-bound
Time	1.000	1.000

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

- a. Design: Intercept + Scenario
Within Subjects Design: Time
- 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: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F
Time	Sphericity Assumed	497.796	1	497.796	67.139
	Greenhouse-Geisser	497.796	1.000	497.796	67.139
	Huynh-Feldt	497.796	1.000	497.796	67.139
	Lower-bound	497.796	1.000	497.796	67.139
Time * Scenario	Sphericity Assumed	21.378	1	21.378	2.883
	Greenhouse-Geisser	21.378	1.000	21.378	2.883
	Huynh-Feldt	21.378	1.000	21.378	2.883
	Lower-bound	21.378	1.000	21.378	2.883
Error(Time)	Sphericity Assumed	481.935	65	7.414	
	Greenhouse-Geisser	481.935	65.000	7.414	
	Huynh-Feldt	481.935	65.000	7.414	
	Lower-bound	481.935	65.000	7.414	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared
Time	Sphericity Assumed	<.001	.508
	Greenhouse-Geisser	<.001	.508
	Huynh-Feldt	<.001	.508
	Lower-bound	<.001	.508
Time * Scenario	Sphericity Assumed	.094	.042
	Greenhouse-Geisser	.094	.042
	Huynh-Feldt	.094	.042
	Lower-bound	.094	.042
Error(Time)	Sphericity Assumed		
	Greenhouse-Geisser		
	Huynh-Feldt		
	Lower-bound		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Type III Sum of Squares	df	Mean Square	F	Sig.
Time	Linear	497.796	1	497.796	67.139	<.001
Time * Scenario	Linear	21.378	1	21.378	2.883	.094
Error(Time)	Linear	481.935	65	7.414		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Partial Eta Squared
Time	Linear	.508
Time * Scenario	Linear	.042
Error(Time)	Linear	

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	5688.330	1	5688.330	91.953	<.001	.586
Scenario	40.270	1	40.270	.651	.423	.010
Error	4020.984	65	61.861			