```
 NEW FILE.
DATASET NAME DataSet2 WINDOW=FRONT.
DATASET ACTIVATE DataSet2.
DATASET CLOSE DataSet1.
GLM MaleAVG FemaleAVG MaleSTD FemaleSTD
  /WSFACTOR=Stats 2 Polynomial Sex 2 Polynomial
  /METHOD=SSTYPE(3)
  /EMMEANS=TABLES(Stats)
  /EMMEANS=TABLES(Sex)
  /EMMEANS=TABLES(Stats*Sex)
  /PRINT=DESCRIPTIVE ETASQ
  /CRITERIA=ALPHA(.05)
  /WSDESIGN=Stats Sex Stats*Sex.
```

General Linear Model

Notes

Output Created		10-MAY-2014 00:02:55
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	11
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 MaleAVG FemaleAVG MaleSTD FemaleSTD /WSFACTOR=Stats 2 Polynomial Sex 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (Stats) /EMMEANS=TABLES (Sex) /EMMEANS=TABLES (Stats*Sex) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=Stats Sex Stats*Sex.
Resources	Processor Time	00:00:00,03
	Elapsed Time	00:00:00,12

[DataSet2]

Within-Subjects Factors

Measure: MEASURE_1

Stats	Sex	Dependent Variable
1	1	MaleAVG
	2	FemaleAVG
2	1	MaleSTD
	2	FemaleSTD

Descriptive Statistics

	Mean	Std. Deviation	N
MaleAVG	92,3627	61,34857	11
FemaleAVG	84,1127	54,75859	11
MaleSTD	27,3091	33,08294	11
FemaleSTD	21,8173	18,92517	11

Multivariate Tests[a]

Effect		Value	F	Hypothesis df	Error df	Sig.
Stats	Pillai's Trace	,688	22,064[b]	1,000	10,000	,001
	Wilks' Lambda	,312	22,064[b]	1,000	10,000	,001
	Hotelling's Trace	2,206	22,064[b]	1,000	10,000	,001
	Roy's Largest Root	2,206	22,064[b]	1,000	10,000	,001
Sex	Pillai's Trace	,200	2,506[b]	1,000	10,000	,144
	Wilks' Lambda	,800	2,506[b]	1,000	10,000	,144
	Hotelling's Trace	,251	2,506[b]	1,000	10,000	,144
	Roy's Largest Root	,251	2,506[b]	1,000	10,000	,144
Stats * Sex	Pillai's Trace	,093	1,024[b]	1,000	10,000	,335
	Wilks' Lambda	,907	1,024[b]	1,000	10,000	,335
	Hotelling's Trace	,102	1,024[b]	1,000	10,000	,335
	Roy's Largest Root	,102	1,024[b]	1,000	10,000	,335

Multivariate Tests[a]

Effect		Partial Eta Squared
Stats	Pillai's Trace	,688
	Wilks' Lambda	,688
	Hotelling's Trace	,688
	Roy's Largest Root	,688
Sex	Pillai's Trace	,200
	Wilks' Lambda	,200
	Hotelling's Trace	,200
	Roy's Largest Root	,200
Stats * Sex	Pillai's Trace	,093
	Wilks' Lambda	,093
	Hotelling's Trace	,093
	Roy's Largest Root	,093

a. Design: Intercept
Within Subjects Design: Stats + Sex + Stats * Sex

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
Stats	1,000	,000	0	.	1,000
Sex	1,000	,000	0	.	1,000
Stats * Sex	1,000	,000	0	.	1,000

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Stats	1,000	1,000
Sex	1,000	1,000
Stats * Sex	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
Within Subjects Design: Stats + Sex + Stats * Sex

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
Stats	Sphericity Assumed	44598,925	1	44598,925	22,064
	Greenhouse-Geisser	44598,925	1,000	44598,925	22,064
	Huynh-Feldt	44598,925	1,000	44598,925	22,064
	Lower-bound	44598,925	1,000	44598,925	22,064
Error(Stats)	Sphericity Assumed	20213,198	10	2021,320	
	Greenhouse-Geisser	20213,198	10,000	2021,320	
	Huynh-Feldt	20213,198	10,000	2021,320	
	Lower-bound	20213,198	10,000	2021,320	
Sex	Sphericity Assumed	519,303	1	519,303	2,506
	Greenhouse-Geisser	519,303	1,000	519,303	2,506
	Huynh-Feldt	519,303	1,000	519,303	2,506
	Lower-bound	519,303	1,000	519,303	2,506
Error(Sex)	Sphericity Assumed	2071,920	10	207,192	
	Greenhouse-Geisser	2071,920	10,000	207,192	
	Huynh-Feldt	2071,920	10,000	207,192	
	Lower-bound	2071,920	10,000	207,192	
Stats * Sex	Sphericity Assumed	20,921	1	20,921	1,024
	Greenhouse-Geisser	20,921	1,000	20,921	1,024
	Huynh-Feldt	20,921	1,000	20,921	1,024
	Lower-bound	20,921	1,000	20,921	1,024
Error(Stats*Sex)	Sphericity Assumed	204,286	10	20,429	
	Greenhouse-Geisser	204,286	10,000	20,429	
	Huynh-Feldt	204,286	10,000	20,429	
	Lower-bound	204,286	10,000	20,429	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared
Stats	Sphericity Assumed	,001	,688
	Greenhouse-Geisser	,001	,688
	Huynh-Feldt	,001	,688
	Lower-bound	,001	,688
Error(Stats)	Sphericity Assumed		
	Greenhouse-Geisser		
	Huynh-Feldt		
	Lower-bound		
Sex	Sphericity Assumed	,144	,200
	Greenhouse-Geisser	,144	,200
	Huynh-Feldt	,144	,200
	Lower-bound	,144	,200
Error(Sex)	Sphericity Assumed		
	Greenhouse-Geisser		
	Huynh-Feldt		
	Lower-bound		
Stats * Sex	Sphericity Assumed	,335	,093
	Greenhouse-Geisser	,335	,093
	Huynh-Feldt	,335	,093
	Lower-bound	,335	,093
Error(Stats*Sex)	Sphericity Assumed		
	Greenhouse-Geisser		
	Huynh-Feldt		
	Lower-bound		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Stats	Sex	Type III Sum of Squares	df	Mean Square	F	Sig.
Stats	Linear		44598,925	1	44598,925	22,064	,001
Error(Stats)	Linear		20213,198	10	2021,320		
Sex		Linear	519,303	1	519,303	2,506	,144
Error(Sex)		Linear	2071,920	10	207,192		
Stats * Sex	Linear	Linear	20,921	1	20,921	1,024	,335
Error(Stats*Sex)	Linear	Linear	204,286	10	20,429		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Stats	Sex	Partial Eta Squared
Stats	Linear		,688
Error(Stats)	Linear		
Sex		Linear	,200
Error(Sex)		Linear	
Stats * Sex	Linear	Linear	,093
Error(Stats*Sex)	Linear	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	139964,496	1	139964,496	23,461	,001	,701
Error	59658,530	10	5965,853			

Estimated Marginal Means

1. Stats

Measure: MEASURE_1

Stats	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	88,238	17,400	49,468	127,007
2	24,563	7,765	7,262	41,864

2. Sex

Measure: MEASURE_1

Sex	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	59,836	13,060	30,737	88,935
2	52,965	10,490	29,593	76,337

3. Stats * Sex

Measure: MEASURE_1

Stats	Sex	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	92,363	18,497	51,148	133,577
	2	84,113	16,510	47,325	120,900
2	1	27,309	9,975	5,084	49,535
	2	21,817	5,706	9,103	34,531