```
GLM Offset1 Offset2 Offset3 Offset4 Offset5
  /WSFACTOR=Offset 5 Polynomial
  /MEASURE=Response
  /METHOD=SSTYPE(3)
  /PLOT=PROFILE(Offset)
  /EMMEANS=TABLES(Offset) COMPARE ADJ(BONFERRONI)
  /PRINT=DESCRIPTIVE ETASQ
  /CRITERIA=ALPHA(.05)
  /WSDESIGN=Offset.
```

# General Linear Model

## Notes

| | | |
|---|---|---|
| Output Created | | 14-NOV-2018 11:30:52 |
| Comments | | |
| Input | Data | \\files\users\kkillebrew\Desktop\Freqtag\RM_ANOVA_FT_ORI_LEFT.sav |
| | Active Dataset | DataSet1 |
| | Filter | <none> |
| | Weight | <none> |
| | Split File | <none> |
| | N of Rows in Working Data File | 12 |
| 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 Offset1 Offset2 Offset3 Offset4 Offset5<br>/WSFACTOR=Offset 5 Polynomial<br>/MEASURE=Response<br>/METHOD=SSTYPE(3)<br>/PLOT=PROFILE(Offset)<br>/EMMEANS=TABLES (Offset) COMPARE ADJ (BONFERRONI)<br>/PRINT=DESCRIPTIVE ETASQ<br>/CRITERIA=ALPHA(.05)<br>/WSDESIGN=Offset. |

## Notes

| | | |
|---|---|---|
| Resources | Processor Time | 00:00:00.14 |
| | Elapsed Time | 00:00:00.13 |

## Within-Subjects Factors

Measure: Response

| Offset | Dependent Variable |
|---|---|
| 1 | Offset1 |
| 2 | Offset2 |
| 3 | Offset3 |
| 4 | Offset4 |
| 5 | Offset5 |

## Descriptive Statistics

| | Mean | Std. Deviation | N |
|---|---|---|---|
| Offset1 | 2.3500 | .38730 | 12 |
| Offset2 | 2.3833 | .39042 | 12 |
| Offset3 | 2.3750 | .33337 | 12 |
| Offset4 | 2.3000 | .37899 | 12 |
| Offset5 | 2.7500 | .42319 | 12 |

## Multivariate Tests[a]

| Effect | | Value | F | Hypothesis df | Error df | Sig. |
|---|---|---|---|---|---|---|
| Offset | Pillai's Trace | .497 | 1.977[b] | 4.000 | 8.000 | .191 |
| | Wilks' Lambda | .503 | 1.977[b] | 4.000 | 8.000 | .191 |
| | Hotelling's Trace | .989 | 1.977[b] | 4.000 | 8.000 | .191 |
| | Roy's Largest Root | .989 | 1.977[b] | 4.000 | 8.000 | .191 |

## Multivariate Tests[a]

| Effect | | Partial Eta Squared |
|---|---|---|
| Offset | Pillai's Trace | .497 |
| | Wilks' Lambda | .497 |
| | Hotelling's Trace | .497 |
| | Roy's Largest Root | .497 |

a. Design: Intercept
Within Subjects Design: Offset

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 |
|---|---|---|---|---|---|
| Offset | .508 | 6.370 | 9 | .707 | .748 |

## Mauchly's Test of Sphericity[a]

Measure: Response

| Within Subjects Effect | Epsilon[b] Huynh-Feldt | Lower-bound |
|---|---|---|
| Offset | 1.000 | .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: Offset

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 | Sig. |
|---|---|---|---|---|---|---|
| Offset | Sphericity Assumed | 1.571 | 4 | .393 | 2.879 | .033 |
| | Greenhouse-Geisser | 1.571 | 2.994 | .525 | 2.879 | .051 |
| | Huynh-Feldt | 1.571 | 4.000 | .393 | 2.879 | .033 |
| | Lower-bound | 1.571 | 1.000 | 1.571 | 2.879 | .118 |
| Error(Offset) | Sphericity Assumed | 6.001 | 44 | .136 | | |
| | Greenhouse-Geisser | 6.001 | 32.932 | .182 | | |
| | Huynh-Feldt | 6.001 | 44.000 | .136 | | |
| | Lower-bound | 6.001 | 11.000 | .546 | | |

## Tests of Within-Subjects Effects

Measure: Response

| Source | | Partial Eta Squared |
|---|---|---|
| Offset | Sphericity Assumed | .207 |
| | Greenhouse-Geisser | .207 |
| | Huynh-Feldt | .207 |
| | Lower-bound | .207 |
| Error(Offset) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |

## Tests of Within-Subjects Contrasts

Measure: Response

| Source | Offset | Type III Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| Offset | Linear | .616 | 1 | .616 | 2.880 | .118 |
| | Quadratic | .504 | 1 | .504 | 4.367 | .061 |
| | Cubic | .385 | 1 | .385 | 3.639 | .083 |
| | Order 4 | .065 | 1 | .065 | .591 | .458 |
| Error(Offset) | Linear | 2.354 | 11 | .214 | | |
| | Quadratic | 1.269 | 11 | .115 | | |
| | Cubic | 1.165 | 11 | .106 | | |
| | Order 4 | 1.214 | 11 | .110 | | |

### Tests of Within-Subjects Contrasts

Measure: Response

| Source | Offset | Partial Eta Squared |
|---|---|---|
| Offset | Linear | .208 |
| | Quadratic | .284 |
| | Cubic | .249 |
| | Order 4 | .051 |
| Error(Offset) | Linear | |
| | Quadratic | |
| | Cubic | |
| | Order 4 | |

### 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 | 354.780 | 1 | 354.780 | 1860.292 | .000 | .994 |
| Error | 2.098 | 11 | .191 | | | |

## Estimated Marginal Means

## Offset

### Estimates

Measure: Response

| Offset | Mean | Std. Error | 95% Confidence Interval | |
|---|---|---|---|---|
| | | | Lower Bound | Upper Bound |
| 1 | 2.350 | .112 | 2.104 | 2.596 |
| 2 | 2.383 | .113 | 2.135 | 2.631 |
| 3 | 2.375 | .096 | 2.163 | 2.587 |
| 4 | 2.300 | .109 | 2.059 | 2.541 |
| 5 | 2.750 | .122 | 2.481 | 3.019 |

## Pairwise Comparisons

Measure: Response

| (I) Offset | (J) Offset | Mean Difference (I-J) | Std. Error | Sig.[a] | 95% Confidence Interval for Difference[a] | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| 1 | 2 | -.033 | .122 | 1.000 | -.460 | .393 |
| | 3 | -.025 | .152 | 1.000 | -.558 | .508 |
| | 4 | .050 | .114 | 1.000 | -.348 | .448 |
| | 5 | -.400 | .181 | .496 | -1.034 | .234 |
| 2 | 1 | .033 | .122 | 1.000 | -.393 | .460 |
| | 3 | .008 | .132 | 1.000 | -.454 | .471 |
| | 4 | .083 | .143 | 1.000 | -.416 | .583 |
| | 5 | -.367 | .196 | .881 | -1.052 | .318 |
| 3 | 1 | .025 | .152 | 1.000 | -.508 | .558 |
| | 2 | -.008 | .132 | 1.000 | -.471 | .454 |
| | 4 | .075 | .145 | 1.000 | -.431 | .581 |
| | 5 | -.375 | .151 | .307 | -.904 | .154 |
| 4 | 1 | -.050 | .114 | 1.000 | -.448 | .348 |
| | 2 | -.083 | .143 | 1.000 | -.583 | .416 |
| | 3 | -.075 | .145 | 1.000 | -.581 | .431 |
| | 5 | -.450 | .153 | .132 | -.983 | .083 |
| 5 | 1 | .400 | .181 | .496 | -.234 | 1.034 |
| | 2 | .367 | .196 | .881 | -.318 | 1.052 |
| | 3 | .375 | .151 | .307 | -.154 | .904 |
| | 4 | .450 | .153 | .132 | -.083 | .983 |

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 | .497 | 1.977[a] | 4.000 | 8.000 | .191 | .497 |
| Wilks' lambda | .503 | 1.977[a] | 4.000 | 8.000 | .191 | .497 |
| Hotelling's trace | .989 | 1.977[a] | 4.000 | 8.000 | .191 | .497 |
| Roy's largest root | .989 | 1.977[a] | 4.000 | 8.000 | .191 | .497 |

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

a. Exact statistic

## Profile Plots