Data written to the working file.8 variables and 27 cases written.Variable: Age Type: Number Format : F2Variable: Cult\_Back Type: Number Format : F1Variable: Game\_Type Type: Number Format : F1Variable: Pre\_Anxiety Type: Number Format : F2Variable: Post\_Anxiety Type: Number Format : F2Variable: Anxiety\_Change Type: Number Format : F3Variable: Culture\_Connect Type: Number Format : F1Variable: Game\_Compare Type: Number Format : F1Substitute the following to build syntax for these data. /VARIABLES= Age F2 Cult\_Back F1 Game\_Type F1 Pre\_Anxiety F2 Post\_Anxiety F2 Anxiety\_Change F3 Culture\_Connect F1 Game\_Compare F1

**General Linear Model**

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| --- | --- | --- |
| **Notes** |  |  |
| Output Created |  | 30-NOV-2024 16:54:52 |
| Comments |  |  |
| Input | Data | C:\Users\bhuvansh\Desktop\cleaned\_data.csv |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 27 |
| 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 Pre\_Anxiety Post\_Anxiety BY Game\_Type /WSFACTOR=Time 2 Polynomial /METHOD=SSTYPE(3) /PRINT=ETASQ HOMOGENEITY /CRITERIA=ALPHA(.05) /WSDESIGN=Time /DESIGN=Game\_Type. |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.01 |

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| **Within-Subjects Factors** |  |
| Measure: MEASURE\_1 |  |
| Time | Dependent Variable |
| 1 | Pre\_Anxiety |
| 2 | Post\_Anxiety |

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| **Between-Subjects Factors** |  |  |
|  |  | N |
| Game\_Type | 1 | 16 |
| 2 | 11 |

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| --- | --- |
| **Box's Test of Equality of Covariance Matrices**a |  |
| Box's M | 23.869 |
| F | 7.227 |
| df1 | 3 |
| df2 | 25759.717 |
| Sig. | <.001 |

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| Tests the null hypothesis that the observed covariance matrices of the dependent variables are equal across groups.a |  |
| a. Design: Intercept + Game\_Type Within Subjects Design: Time |  |

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| **Multivariate Tests**a |  |  |  |  |  |  |
| Effect |  | Value | F | Hypothesis df | Error df | Sig. |
| Time | Pillai's Trace | .087 | 2.377b | 1.000 | 25.000 | .136 |
| Wilks' Lambda | .913 | 2.377b | 1.000 | 25.000 | .136 |
| Hotelling's Trace | .095 | 2.377b | 1.000 | 25.000 | .136 |
| Roy's Largest Root | .095 | 2.377b | 1.000 | 25.000 | .136 |
| Time \* Game\_Type | Pillai's Trace | .174 | 5.266b | 1.000 | 25.000 | .030 |
| Wilks' Lambda | .826 | 5.266b | 1.000 | 25.000 | .030 |
| Hotelling's Trace | .211 | 5.266b | 1.000 | 25.000 | .030 |
| Roy's Largest Root | .211 | 5.266b | 1.000 | 25.000 | .030 |

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| **Multivariate Tests**a |  |  |
| Effect |  | Partial Eta Squared |
| Time | Pillai's Trace | .087 |
| Wilks' Lambda | .087 |
| Hotelling's Trace | .087 |
| Roy's Largest Root | .087 |
| Time \* Game\_Type | Pillai's Trace | .174 |
| Wilks' Lambda | .174 |
| Hotelling's Trace | .174 |
| Roy's Largest Root | .174 |

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| a. Design: Intercept + Game\_Type Within Subjects Design: Time |  |  |
| b. Exact statistic |  |  |

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| **Mauchly's Test of Sphericity**a |  |  |  |  |  |
| Measure: MEASURE\_1 |  |  |  |  |  |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |
| Greenhouse-Geisser |
| Time | 1.000 | .000 | 0 | . | 1.000 |

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| **Mauchly's Test of Sphericity**a |  |  |
| Measure: MEASURE\_1 |  |  |
| Within Subjects Effect | Epsilon |  |
| Huynh-Feldt | Lower-bound |
| Time | 1.000 | 1.000 |

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| Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.a |  |  |
| a. Design: Intercept + Game\_Type 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. |  |  |

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| **Tests of Within-Subjects Effects** |  |  |  |  |  |
| Measure: MEASURE\_1 |  |  |  |  |  |
| Source |  | Type III Sum of Squares | df | Mean Square | F |
| Time | Sphericity Assumed | 130.576 | 1 | 130.576 | 2.377 |
| Greenhouse-Geisser | 130.576 | 1.000 | 130.576 | 2.377 |
| Huynh-Feldt | 130.576 | 1.000 | 130.576 | 2.377 |
| Lower-bound | 130.576 | 1.000 | 130.576 | 2.377 |
| Time \* Game\_Type | Sphericity Assumed | 289.243 | 1 | 289.243 | 5.266 |
| Greenhouse-Geisser | 289.243 | 1.000 | 289.243 | 5.266 |
| Huynh-Feldt | 289.243 | 1.000 | 289.243 | 5.266 |
| Lower-bound | 289.243 | 1.000 | 289.243 | 5.266 |
| Error(Time) | Sphericity Assumed | 1373.239 | 25 | 54.930 |  |
| Greenhouse-Geisser | 1373.239 | 25.000 | 54.930 |  |
| Huynh-Feldt | 1373.239 | 25.000 | 54.930 |  |
| Lower-bound | 1373.239 | 25.000 | 54.930 |  |

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| **Tests of Within-Subjects Effects** |  |  |  |
| Measure: MEASURE\_1 |  |  |  |
| Source |  | Sig. | Partial Eta Squared |
| Time | Sphericity Assumed | .136 | .087 |
| Greenhouse-Geisser | .136 | .087 |
| Huynh-Feldt | .136 | .087 |
| Lower-bound | .136 | .087 |
| Time \* Game\_Type | Sphericity Assumed | .030 | .174 |
| Greenhouse-Geisser | .030 | .174 |
| Huynh-Feldt | .030 | .174 |
| Lower-bound | .030 | .174 |
| Error(Time) | Sphericity Assumed |  |  |
| Greenhouse-Geisser |  |  |
| Huynh-Feldt |  |  |
| Lower-bound |  |  |

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| **Tests of Within-Subjects Contrasts** |  |  |  |  |  |  |
| Measure: MEASURE\_1 |  |  |  |  |  |  |
| Source | Time | Type III Sum of Squares | df | Mean Square | F | Sig. |
| Time | Linear | 130.576 | 1 | 130.576 | 2.377 | .136 |
| Time \* Game\_Type | Linear | 289.243 | 1 | 289.243 | 5.266 | .030 |
| Error(Time) | Linear | 1373.239 | 25 | 54.930 |  |  |

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| **Tests of Within-Subjects Contrasts** |  |  |
| Measure: MEASURE\_1 |  |  |
| Source | Time | Partial Eta Squared |
| Time | Linear | .087 |
| Time \* Game\_Type | Linear | .174 |
| Error(Time) | Linear |  |

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| **Levene's Test of Equality of Error Variances**a |  |  |  |  |  |
|  |  | Levene Statistic | df1 | df2 | Sig. |
| Pre\_Anxiety | Based on Mean | 11.360 | 1 | 25 | .002 |
| Based on Median | 4.115 | 1 | 25 | .053 |
| Based on Median and with adjusted df | 4.115 | 1 | 13.331 | .063 |
| Based on trimmed mean | 11.227 | 1 | 25 | .003 |
| Post\_Anxiety | Based on Mean | 6.746 | 1 | 25 | .016 |
| Based on Median | 4.231 | 1 | 25 | .050 |
| Based on Median and with adjusted df | 4.231 | 1 | 20.146 | .053 |
| Based on trimmed mean | 6.575 | 1 | 25 | .017 |

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| Tests the null hypothesis that the error variance of the dependent variable is equal across groups.a |  |  |  |  |  |
| a. Design: Intercept + Game\_Type Within Subjects Design: Time |  |  |  |  |  |

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| **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 | 99335.761 | 1 | 99335.761 | 1009.822 | <.001 | .976 |
| Game\_Type | 9.095 | 1 | 9.095 | .092 | .764 | .004 |
| Error | 2459.239 | 25 | 98.370 |  |  |  |