Frequencies

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 15:14:11 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\BI.sav |
| Active Dataset | 数据集1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 24 |
| 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. |
| Syntax | | FREQUENCIES VARIABLES=AG GD BI1 BI2 BI3 PR1 PR2  /NTILES=4  /ORDER=ANALYSIS. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | | | |
|  | | AG | GD | BI1 | BI2 | BI3 | PR1 |
| N | Valid | 24 | 24 | 24 | 24 | 24 | 24 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 |
| Percentiles | 25 | 21.00 |  |  |  |  |  |
| 50 | 21.00 |  |  |  |  |  |
| 75 | 22.00 |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Statistics** | | |
|  | | PR2 |
| N | Valid | 24 |
| Missing | 0 |
| Percentiles | 25 |  |
| 50 |  |
| 75 |  |

Frequency Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **AG** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 20 | 1 | 4.17 | 4.17 | 4.17 |
| 21 | 15 | 62.50 | 62.50 | 66.67 |
| 22 | 3 | 12.50 | 12.50 | 79.17 |
| 23 | 1 | 4.17 | 4.17 | 83.33 |
| 24 | 1 | 4.17 | 4.17 | 87.50 |
| 27 | 3 | 12.50 | 12.50 | 100.00 |
| Total | 24 | 100.00 | 100.00 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **GD** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | F | 12 | 50.0 | 50.0 | 50.0 |
| M | 12 | 50.0 | 50.0 | 100.0 |
| Total | 24 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BI1** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | N | 8 | 33.33 | 33.33 | 33.33 |
| Y | 16 | 66.67 | 66.67 | 100.00 |
| Total | 24 | 100.00 | 100.00 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BI2** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | A1 | 3 | 12.50 | 12.50 | 12.50 |
| A2 | 13 | 54.17 | 54.17 | 66.67 |
| A3 | 6 | 25.00 | 25.00 | 91.67 |
| A4 | 1 | 4.17 | 4.17 | 95.83 |
| A5 | 1 | 4.17 | 4.17 | 100.00 |
| Total | 24 | 100.00 | 100.00 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BI3** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | A1 | 2 | 8.33 | 8.33 | 8.33 |
| A2 | 3 | 12.50 | 12.50 | 20.83 |
| A3 | 9 | 37.50 | 37.50 | 58.33 |
| A4 | 6 | 25.00 | 25.00 | 83.33 |
| A5 | 4 | 16.67 | 16.67 | 100.00 |
| Total | 24 | 100.00 | 100.00 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PR1** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | A1 | 2 | 8.33 | 8.33 | 8.33 |
| A2 | 10 | 41.67 | 41.67 | 50.00 |
| A3 | 6 | 25.00 | 25.00 | 75.00 |
| A4 | 5 | 20.83 | 20.83 | 95.83 |
| A5 | 1 | 4.17 | 4.17 | 100.00 |
| Total | 24 | 100.00 | 100.00 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PR2** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | A1 | 5 | 20.83 | 20.83 | 20.83 |
| A2 | 7 | 29.17 | 29.17 | 50.00 |
| A3 | 5 | 20.83 | 20.83 | 70.83 |
| A4 | 5 | 20.83 | 20.83 | 91.67 |
| A5 | 2 | 8.33 | 8.33 | 100.00 |
| Total | 24 | 100.00 | 100.00 |  |

Means

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 18:08:27 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\Time.sav |
| Active Dataset | 数据集1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing. |
| Cases Used | Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values. |
| Syntax | | MEANS TABLES=Time BY IT  /CELLS=MEAN COUNT STDDEV MIN MAX  /STATISTICS ANOVA LINEARITY. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.00 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | |
|  | Cases | | | | | |
| Included | | Excluded | | Total | |
| N | Percent | N | Percent | N | Percent |
| Time \* IT | 72 | 100.0% | 0 | 0.0% | 72 | 100.0% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Report** | | | | | |
| Time | | | | | |
| IT | Mean | N | Std. Deviation | Minimum | Maximum |
| 1.00 | 2.4167 | 24 | 1.17646 | 1.0 | 4.0 |
| 2.00 | 3.5000 | 24 | 1.31876 | 1.0 | 6.0 |
| 3.00 | 3.9583 | 24 | 1.26763 | 1.0 | 6.0 |
| Total | 3.2917 | 72 | 1.39857 | 1.0 | 6.0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANOVA Table** | | | | | |
|  | | | Sum of Squares | df | Mean Square |
| Time \* IT | Between Groups | (Combined) | 30.083 | 2 | 15.042 |
| Linearity | 28.521 | 1 | 28.521 |
| Deviation from Linearity | 1.563 | 1 | 1.563 |
| Within Groups | | 108.792 | 69 | 1.577 |
| Total | | 138.875 | 71 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ANOVA Table** | | | | |
|  | | | F | Sig. |
| Time \* IT | Between Groups | (Combined) | 9.540 | <.001 |
| Linearity | 18.089 | <.001 |
| Deviation from Linearity | .991 | .323 |
| Within Groups | |  |  |
| Total | |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Measures of Association** | | | | |
|  | R | R Squared | Eta | Eta Squared |
| Time \* IT | .453 | .205 | .465 | .217 |

T-Test

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 14:49:14 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\Grade.sav |
| Active Dataset | 数据集6 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 24 |
| Missing Value Handling | Definition of Missing | User defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis. |
| Syntax | | T-TEST PAIRS=PreGL PreGP PreGC WITH PostGL PostGP PostGC (PAIRED)  /ES DISPLAY(TRUE) STANDARDIZER(SD)  /CRITERIA=CI(.9500)  /MISSING=ANALYSIS. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.00 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | PreGL | .1250 | 24 | .19505 | .03981 |
| PostGL | 1.6771 | 24 | .63194 | .12899 |
| Pair 2 | PreGP | .0833 | 24 | .15926 | .03251 |
| PostGP | 1.5417 | 24 | .56466 | .11526 |
| Pair 3 | PreGC | .0729 | 24 | .13751 | .02807 |
| PostGC | 1.3438 | 24 | .42229 | .08620 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Correlations** | | | | | |
|  | | N | Correlation | Significance | |
| One-Sided p | Two-Sided p |
| Pair 1 | PreGL & PostGL | 24 | .364 | .040 | .081 |
| Pair 2 | PreGP & PostGP | 24 | -.071 | .372 | .743 |
| Pair 3 | PreGC & PostGC | 24 | .298 | .078 | .157 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | |
|  | | Paired Differences | | | |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |
| Lower |
| Pair 1 | PreGL - PostGL | -1.55208 | .58967 | .12037 | -1.80108 |
| Pair 2 | PreGP - PostGP | -1.45833 | .59740 | .12194 | -1.71059 |
| Pair 3 | PreGC - PostGC | -1.27083 | .40323 | .08231 | -1.44110 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | | |
|  | | Paired Differences | t | df | Significance | |
| 95% Confidence Interval of the Difference | One-Sided p | Two-Sided p |
| Upper |
| Pair 1 | PreGL - PostGL | -1.30309 | -12.895 | 23 | <.001 | <.001 |
| Pair 2 | PreGP - PostGP | -1.20607 | -11.959 | 23 | <.001 | <.001 |
| Pair 3 | PreGC - PostGC | -1.10057 | -15.440 | 23 | <.001 | <.001 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Effect Sizes** | | | | | |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval |
| Lower |
| Pair 1 | PreGL - PostGL | Cohen's d | .58967 | -2.632 | -3.480 |
| Hedges' correction | .59951 | -2.589 | -3.423 |
| Pair 2 | PreGP - PostGP | Cohen's d | .59740 | -2.441 | -3.241 |
| Hedges' correction | .60736 | -2.401 | -3.188 |
| Pair 3 | PreGC - PostGC | Cohen's d | .40323 | -3.152 | -4.135 |
| Hedges' correction | .40995 | -3.100 | -4.067 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Paired Samples Effect Sizes** | | | |
|  | | | 95% Confidence Intervala |
| Upper |
| Pair 1 | PreGL - PostGL | Cohen's d | -1.770 |
| Hedges' correction | -1.741 |
| Pair 2 | PreGP - PostGP | Cohen's d | -1.627 |
| Hedges' correction | -1.601 |
| Pair 3 | PreGC - PostGC | Cohen's d | -2.156 |
| Hedges' correction | -2.121 |

|  |
| --- |
| a. The denominator used in estimating the effect sizes.  Cohen's d uses the sample standard deviation of the mean difference.  Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor. |

Frequencies

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 14:54:55 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\Grade.sav |
| Active Dataset | 数据集6 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 24 |
| 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. |
| Syntax | | FREQUENCIES VARIABLES=PreGL PreGP PreGC PostGL PostGP PostGC  /FORMAT=NOTABLE  /STATISTICS=MEAN MEDIAN  /ORDER=ANALYSIS. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | | | |
|  | | PreGL | PreGP | PreGC | PostGL | PostGP | PostGC |
| N | Valid | 24 | 24 | 24 | 24 | 24 | 24 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean | | .1250 | .0833 | .0729 | 1.6771 | 1.5417 | 1.3438 |
| Median | | .0000 | .0000 | .0000 | 1.7500 | 1.5000 | 1.2500 |

Oneway

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 14:55:56 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\CAIT.sav |
| Active Dataset | 数据集5 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on cases with no missing data for any variable in the analysis. |
| Syntax | | ONEWAY Grade BY IT  /STATISTICS DESCRIPTIVES  /MISSING ANALYSIS  /CRITERIA=CILEVEL(0.95)  /POSTHOC=TUKEY ALPHA(0.05). |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.01 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | |
| Grade | | | | | | |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | |
| Lower Bound | Upper Bound |
| 1.00 | 24 | 1.6771 | .63194 | .12899 | 1.4102 | 1.9439 |
| 2.00 | 24 | 1.5417 | .56466 | .11526 | 1.3032 | 1.7801 |
| 3.00 | 24 | 1.3438 | .42229 | .08620 | 1.1654 | 1.5221 |
| Total | 72 | 1.5208 | .55625 | .06556 | 1.3901 | 1.6515 |

|  |  |  |
| --- | --- | --- |
| **Descriptives** | | |
| Grade | | |
|  | Minimum | Maximum |
|
| 1.00 | .00 | 2.75 |
| 2.00 | .25 | 2.50 |
| 3.00 | .50 | 2.25 |
| Total | .00 | 2.75 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | |
| Grade | | | | | |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 1.349 | 2 | .674 | 2.257 | .112 |
| Within Groups | 20.620 | 69 | .299 |  |  |
| Total | 21.969 | 71 |  |  |  |

Post Hoc Tests

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Dependent Variable: Grade | | | | | | |
| Tukey HSD | | | | | | |
| (I) IT | (J) IT | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1.00 | 2.00 | .13542 | .15781 | .668 | -.2426 | .5134 |
| 3.00 | .33333 | .15781 | .095 | -.0447 | .7113 |
| 2.00 | 1.00 | -.13542 | .15781 | .668 | -.5134 | .2426 |
| 3.00 | .19792 | .15781 | .426 | -.1801 | .5759 |
| 3.00 | 1.00 | -.33333 | .15781 | .095 | -.7113 | .0447 |
| 2.00 | -.19792 | .15781 | .426 | -.5759 | .1801 |

Homogeneous Subsets

|  |  |  |
| --- | --- | --- |
| **Grade** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 3.00 | 24 | 1.3438 |
| 2.00 | 24 | 1.5417 |
| 1.00 | 24 | 1.6771 |
| Sig. |  | .095 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

Oneway

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 14:56:25 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\CAIT.sav |
| Active Dataset | 数据集5 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on cases with no missing data for any variable in the analysis. |
| Syntax | | ONEWAY G1 G2 G3 G4 BY IT  /STATISTICS DESCRIPTIVES  /MISSING ANALYSIS  /CRITERIA=CILEVEL(0.95)  /POSTHOC=TUKEY ALPHA(0.05). |
| Resources | Processor Time | 00:00:00.03 |
| Elapsed Time | 00:00:00.02 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | |
| Lower Bound | Upper Bound |
| G1 | 1.00 | 24 | 1.5833 | .65386 | .13347 | 1.3072 | 1.8594 |
| 2.00 | 24 | 1.5417 | .93153 | .19015 | 1.1483 | 1.9350 |
| 3.00 | 24 | 1.5000 | .78019 | .15926 | 1.1706 | 1.8294 |
| Total | 72 | 1.5417 | .78610 | .09264 | 1.3569 | 1.7264 |
| G2 | 1.00 | 24 | 1.5000 | .93250 | .19035 | 1.1062 | 1.8938 |
| 2.00 | 24 | 1.3750 | .76967 | .15711 | 1.0500 | 1.7000 |
| 3.00 | 24 | 1.4583 | .88363 | .18037 | 1.0852 | 1.8315 |
| Total | 72 | 1.4444 | .85397 | .10064 | 1.2438 | 1.6451 |
| G3 | 1.00 | 24 | 2.0417 | .90790 | .18532 | 1.6583 | 2.4250 |
| 2.00 | 24 | 1.4583 | .72106 | .14719 | 1.1539 | 1.7628 |
| 3.00 | 24 | 1.1250 | .85019 | .17354 | .7660 | 1.4840 |
| Total | 72 | 1.5417 | .90285 | .10640 | 1.3295 | 1.7538 |
| G4 | 1.00 | 24 | 1.5833 | .97431 | .19888 | 1.1719 | 1.9947 |
| 2.00 | 24 | 1.7917 | .77903 | .15902 | 1.4627 | 2.1206 |
| 3.00 | 24 | 1.2917 | .75060 | .15322 | .9747 | 1.6086 |
| Total | 72 | 1.5556 | .85397 | .10064 | 1.3549 | 1.7562 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptives** | | | |
|  | | Minimum | Maximum |
|
| G1 | 1.00 | .00 | 3.00 |
| 2.00 | .00 | 3.00 |
| 3.00 | .00 | 3.00 |
| Total | .00 | 3.00 |
| G2 | 1.00 | .00 | 3.00 |
| 2.00 | .00 | 3.00 |
| 3.00 | .00 | 3.00 |
| Total | .00 | 3.00 |
| G3 | 1.00 | .00 | 3.00 |
| 2.00 | .00 | 3.00 |
| 3.00 | .00 | 3.00 |
| Total | .00 | 3.00 |
| G4 | 1.00 | .00 | 3.00 |
| 2.00 | .00 | 3.00 |
| 3.00 | .00 | 2.00 |
| Total | .00 | 3.00 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| G1 | Between Groups | .083 | 2 | .042 | .066 | .937 |
| Within Groups | 43.792 | 69 | .635 |  |  |
| Total | 43.875 | 71 |  |  |  |
| G2 | Between Groups | .194 | 2 | .097 | .130 | .878 |
| Within Groups | 51.583 | 69 | .748 |  |  |
| Total | 51.778 | 71 |  |  |  |
| G3 | Between Groups | 10.333 | 2 | 5.167 | 7.499 | .001 |
| Within Groups | 47.542 | 69 | .689 |  |  |
| Total | 57.875 | 71 |  |  |  |
| G4 | Between Groups | 3.028 | 2 | 1.514 | 2.143 | .125 |
| Within Groups | 48.750 | 69 | .707 |  |  |
| Total | 51.778 | 71 |  |  |  |

Post Hoc Tests

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Tukey HSD | | | | | | |
| Dependent Variable | (I) IT | (J) IT | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |
| Lower Bound |
| G1 | 1.00 | 2.00 | .04167 | .22997 | .982 | -.5092 |
| 3.00 | .08333 | .22997 | .930 | -.4675 |
| 2.00 | 1.00 | -.04167 | .22997 | .982 | -.5925 |
| 3.00 | .04167 | .22997 | .982 | -.5092 |
| 3.00 | 1.00 | -.08333 | .22997 | .930 | -.6342 |
| 2.00 | -.04167 | .22997 | .982 | -.5925 |
| G2 | 1.00 | 2.00 | .12500 | .24960 | .871 | -.4729 |
| 3.00 | .04167 | .24960 | .985 | -.5562 |
| 2.00 | 1.00 | -.12500 | .24960 | .871 | -.7229 |
| 3.00 | -.08333 | .24960 | .940 | -.6812 |
| 3.00 | 1.00 | -.04167 | .24960 | .985 | -.6395 |
| 2.00 | .08333 | .24960 | .940 | -.5145 |
| G3 | 1.00 | 2.00 | .58333\* | .23962 | .046 | .0094 |
| 3.00 | .91667\* | .23962 | <.001 | .3427 |
| 2.00 | 1.00 | -.58333\* | .23962 | .046 | -1.1573 |
| 3.00 | .33333 | .23962 | .351 | -.2406 |
| 3.00 | 1.00 | -.91667\* | .23962 | <.001 | -1.4906 |
| 2.00 | -.33333 | .23962 | .351 | -.9073 |
| G4 | 1.00 | 2.00 | -.20833 | .24265 | .668 | -.7895 |
| 3.00 | .29167 | .24265 | .456 | -.2895 |
| 2.00 | 1.00 | .20833 | .24265 | .668 | -.3729 |
| 3.00 | .50000 | .24265 | .106 | -.0812 |
| 3.00 | 1.00 | -.29167 | .24265 | .456 | -.8729 |
| 2.00 | -.50000 | .24265 | .106 | -1.0812 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Multiple Comparisons** | | | |
| Tukey HSD | | | |
| Dependent Variable | (I) IT | (J) IT | 95% Confidence Interval |
| Upper Bound |
| G1 | 1.00 | 2.00 | .5925 |
| 3.00 | .6342 |
| 2.00 | 1.00 | .5092 |
| 3.00 | .5925 |
| 3.00 | 1.00 | .4675 |
| 2.00 | .5092 |
| G2 | 1.00 | 2.00 | .7229 |
| 3.00 | .6395 |
| 2.00 | 1.00 | .4729 |
| 3.00 | .5145 |
| 3.00 | 1.00 | .5562 |
| 2.00 | .6812 |
| G3 | 1.00 | 2.00 | 1.1573 |
| 3.00 | 1.4906 |
| 2.00 | 1.00 | -.0094 |
| 3.00 | .9073 |
| 3.00 | 1.00 | -.3427 |
| 2.00 | .2406 |
| G4 | 1.00 | 2.00 | .3729 |
| 3.00 | .8729 |
| 2.00 | 1.00 | .7895 |
| 3.00 | 1.0812 |
| 3.00 | 1.00 | .2895 |
| 2.00 | .0812 |

|  |
| --- |
| \*. The mean difference is significant at the 0.05 level. |

Homogeneous Subsets

|  |  |  |
| --- | --- | --- |
| **G1** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 3.00 | 24 | 1.5000 |
| 2.00 | 24 | 1.5417 |
| 1.00 | 24 | 1.5833 |
| Sig. |  | .930 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |
| --- | --- | --- |
| **G2** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 2.00 | 24 | 1.3750 |
| 3.00 | 24 | 1.4583 |
| 1.00 | 24 | 1.5000 |
| Sig. |  | .871 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |  |
| --- | --- | --- | --- |
| **G3** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 3.00 | 24 | 1.1250 |  |
| 2.00 | 24 | 1.4583 |  |
| 1.00 | 24 |  | 2.0417 |
| Sig. |  | .351 | 1.000 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |
| --- | --- | --- |
| **G4** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 3.00 | 24 | 1.2917 |
| 1.00 | 24 | 1.5833 |
| 2.00 | 24 | 1.7917 |
| Sig. |  | .106 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

Oneway

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 17:01:06 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\IMI\_UES.sav |
| Active Dataset | 数据集0 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on cases with no missing data for any variable in the analysis. |
| Syntax | | ONEWAY IE PT PCH PCO BY IT  /STATISTICS DESCRIPTIVES  /MISSING ANALYSIS  /CRITERIA=CILEVEL(0.95)  /POSTHOC=TUKEY ALPHA(0.05). |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.02 |

[数据集0] C:\Users\admin\Desktop\data\IMI\_UES.sav

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | |
| Lower Bound | Upper Bound |
| IE | 1.00 | 24 | 4.8155 | 1.43383 | .29268 | 4.2100 | 5.4209 |
| 2.00 | 24 | 5.6548 | .99592 | .20329 | 5.2342 | 6.0753 |
| 3.00 | 24 | 6.0238 | .96493 | .19697 | 5.6164 | 6.4313 |
| Total | 72 | 5.4980 | 1.24424 | .14664 | 5.2056 | 5.7904 |
| PT | 1.00 | 24 | 2.6417 | 1.09223 | .22295 | 2.1805 | 3.1029 |
| 2.00 | 24 | 2.6500 | 1.08948 | .22239 | 2.1900 | 3.1100 |
| 3.00 | 24 | 2.6500 | 1.17399 | .23964 | 2.1543 | 3.1457 |
| Total | 72 | 2.6472 | 1.10338 | .13004 | 2.3879 | 2.9065 |
| PCH | 1.00 | 24 | 5.0250 | 1.39603 | .28496 | 4.4355 | 5.6145 |
| 2.00 | 24 | 5.4833 | .91541 | .18686 | 5.0968 | 5.8699 |
| 3.00 | 24 | 5.9083 | 1.04003 | .21230 | 5.4692 | 6.3475 |
| Total | 72 | 5.4722 | 1.17692 | .13870 | 5.1957 | 5.7488 |
| PCO | 1.00 | 24 | 4.6750 | 1.17483 | .23981 | 4.1789 | 5.1711 |
| 2.00 | 24 | 4.8500 | 1.33872 | .27327 | 4.2847 | 5.4153 |
| 3.00 | 24 | 4.9583 | 1.05991 | .21635 | 4.5108 | 5.4059 |
| Total | 72 | 4.8278 | 1.18550 | .13971 | 4.5492 | 5.1064 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptives** | | | |
|  | | Minimum | Maximum |
|
| IE | 1.00 | 2.14 | 7.00 |
| 2.00 | 3.00 | 7.00 |
| 3.00 | 4.43 | 7.00 |
| Total | 2.14 | 7.00 |
| PT | 1.00 | 1.00 | 5.20 |
| 2.00 | 1.00 | 4.80 |
| 3.00 | 1.00 | 5.20 |
| Total | 1.00 | 5.20 |
| PCH | 1.00 | 2.00 | 7.00 |
| 2.00 | 4.00 | 7.00 |
| 3.00 | 4.00 | 7.00 |
| Total | 2.00 | 7.00 |
| PCO | 1.00 | 1.80 | 6.60 |
| 2.00 | 2.20 | 7.00 |
| 3.00 | 2.80 | 6.80 |
| Total | 1.80 | 7.00 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| IE | Between Groups | 18.405 | 2 | 9.203 | 6.939 | .002 |
| Within Groups | 91.513 | 69 | 1.326 |  |  |
| Total | 109.918 | 71 |  |  |  |
| PT | Between Groups | .001 | 2 | .001 | .000 | 1.000 |
| Within Groups | 86.438 | 69 | 1.253 |  |  |
| Total | 86.439 | 71 |  |  |  |
| PCH | Between Groups | 9.368 | 2 | 4.684 | 3.632 | .032 |
| Within Groups | 88.977 | 69 | 1.290 |  |  |
| Total | 98.344 | 71 |  |  |  |
| PCO | Between Groups | .981 | 2 | .491 | .343 | .711 |
| Within Groups | 98.803 | 69 | 1.432 |  |  |
| Total | 99.784 | 71 |  |  |  |

Post Hoc Tests

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Tukey HSD | | | | | | |
| Dependent Variable | (I) IT | (J) IT | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |
| Lower Bound |
| IE | 1.00 | 2.00 | -.83929\* | .33245 | .037 | -1.6356 |
| 3.00 | -1.20833\* | .33245 | .002 | -2.0047 |
| 2.00 | 1.00 | .83929\* | .33245 | .037 | .0430 |
| 3.00 | -.36905 | .33245 | .511 | -1.1654 |
| 3.00 | 1.00 | 1.20833\* | .33245 | .002 | .4120 |
| 2.00 | .36905 | .33245 | .511 | -.4273 |
| PT | 1.00 | 2.00 | -.00833 | .32310 | 1.000 | -.7823 |
| 3.00 | -.00833 | .32310 | 1.000 | -.7823 |
| 2.00 | 1.00 | .00833 | .32310 | 1.000 | -.7656 |
| 3.00 | .00000 | .32310 | 1.000 | -.7739 |
| 3.00 | 1.00 | .00833 | .32310 | 1.000 | -.7656 |
| 2.00 | .00000 | .32310 | 1.000 | -.7739 |
| PCH | 1.00 | 2.00 | -.45833 | .32781 | .347 | -1.2435 |
| 3.00 | -.88333\* | .32781 | .024 | -1.6685 |
| 2.00 | 1.00 | .45833 | .32781 | .347 | -.3269 |
| 3.00 | -.42500 | .32781 | .402 | -1.2102 |
| 3.00 | 1.00 | .88333\* | .32781 | .024 | .0981 |
| 2.00 | .42500 | .32781 | .402 | -.3602 |
| PCO | 1.00 | 2.00 | -.17500 | .34544 | .868 | -1.0024 |
| 3.00 | -.28333 | .34544 | .692 | -1.1108 |
| 2.00 | 1.00 | .17500 | .34544 | .868 | -.6524 |
| 3.00 | -.10833 | .34544 | .947 | -.9358 |
| 3.00 | 1.00 | .28333 | .34544 | .692 | -.5441 |
| 2.00 | .10833 | .34544 | .947 | -.7191 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Multiple Comparisons** | | | |
| Tukey HSD | | | |
| Dependent Variable | (I) IT | (J) IT | 95% Confidence Interval |
| Upper Bound |
| IE | 1.00 | 2.00 | -.0430 |
| 3.00 | -.4120 |
| 2.00 | 1.00 | 1.6356 |
| 3.00 | .4273 |
| 3.00 | 1.00 | 2.0047 |
| 2.00 | 1.1654 |
| PT | 1.00 | 2.00 | .7656 |
| 3.00 | .7656 |
| 2.00 | 1.00 | .7823 |
| 3.00 | .7739 |
| 3.00 | 1.00 | .7823 |
| 2.00 | .7739 |
| PCH | 1.00 | 2.00 | .3269 |
| 3.00 | -.0981 |
| 2.00 | 1.00 | 1.2435 |
| 3.00 | .3602 |
| 3.00 | 1.00 | 1.6685 |
| 2.00 | 1.2102 |
| PCO | 1.00 | 2.00 | .6524 |
| 3.00 | .5441 |
| 2.00 | 1.00 | 1.0024 |
| 3.00 | .7191 |
| 3.00 | 1.00 | 1.1108 |
| 2.00 | .9358 |

|  |
| --- |
| \*. The mean difference is significant at the 0.05 level. |

Homogeneous Subsets

|  |  |  |  |
| --- | --- | --- | --- |
| **IE** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 4.8155 |  |
| 2.00 | 24 |  | 5.6548 |
| 3.00 | 24 |  | 6.0238 |
| Sig. |  | 1.000 | .511 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |
| --- | --- | --- |
| **PT** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 1.00 | 24 | 2.6417 |
| 2.00 | 24 | 2.6500 |
| 3.00 | 24 | 2.6500 |
| Sig. |  | 1.000 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |  |
| --- | --- | --- | --- |
| **PCH** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 5.0250 |  |
| 2.00 | 24 | 5.4833 | 5.4833 |
| 3.00 | 24 |  | 5.9083 |
| Sig. |  | .347 | .402 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |
| --- | --- | --- |
| **PCO** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 1.00 | 24 | 4.6750 |
| 2.00 | 24 | 4.8500 |
| 3.00 | 24 | 4.9583 |
| Sig. |  | .692 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

Oneway

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 21-AUG-2021 17:02:04 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\data\IMI\_UES.sav |
| Active Dataset | 数据集0 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on cases with no missing data for any variable in the analysis. |
| Syntax | | ONEWAY FA PU AE RW BY IT  /STATISTICS DESCRIPTIVES  /MISSING ANALYSIS  /CRITERIA=CILEVEL(0.95)  /POSTHOC=TUKEY ALPHA(0.05). |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.02 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | |
| Lower Bound | Upper Bound |
| FA | 1.00 | 24 | 3.3333 | .99273 | .20264 | 2.9141 | 3.7525 |
| 2.00 | 24 | 4.1389 | .69447 | .14176 | 3.8456 | 4.4321 |
| 3.00 | 24 | 4.4306 | .78315 | .15986 | 4.0999 | 4.7613 |
| Total | 72 | 3.9676 | .94473 | .11134 | 3.7456 | 4.1896 |
| PU | 1.00 | 24 | 2.3472 | .91935 | .18766 | 1.9590 | 2.7354 |
| 2.00 | 24 | 1.9583 | .88636 | .18093 | 1.5841 | 2.3326 |
| 3.00 | 24 | 1.7500 | .85832 | .17520 | 1.3876 | 2.1124 |
| Total | 72 | 2.0185 | .91053 | .10731 | 1.8046 | 2.2325 |
| AE | 1.00 | 24 | 3.0972 | .89809 | .18332 | 2.7180 | 3.4765 |
| 2.00 | 24 | 4.0556 | .92034 | .18786 | 3.6669 | 4.4442 |
| 3.00 | 24 | 4.4722 | .70824 | .14457 | 4.1732 | 4.7713 |
| Total | 72 | 3.8750 | 1.01697 | .11985 | 3.6360 | 4.1140 |
| RW | 1.00 | 24 | 3.7222 | .90445 | .18462 | 3.3403 | 4.1041 |
| 2.00 | 24 | 4.3472 | .56874 | .11609 | 4.1071 | 4.5874 |
| 3.00 | 24 | 4.5556 | .64954 | .13259 | 4.2813 | 4.8298 |
| Total | 72 | 4.2083 | .79599 | .09381 | 4.0213 | 4.3954 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptives** | | | |
|  | | Minimum | Maximum |
|
| FA | 1.00 | 1.00 | 5.00 |
| 2.00 | 2.67 | 5.00 |
| 3.00 | 2.33 | 5.00 |
| Total | 1.00 | 5.00 |
| PU | 1.00 | 1.00 | 5.00 |
| 2.00 | 1.00 | 4.33 |
| 3.00 | 1.00 | 4.00 |
| Total | 1.00 | 5.00 |
| AE | 1.00 | 1.00 | 5.00 |
| 2.00 | 1.67 | 5.00 |
| 3.00 | 2.67 | 5.00 |
| Total | 1.00 | 5.00 |
| RW | 1.00 | 1.33 | 5.00 |
| 2.00 | 3.00 | 5.00 |
| 3.00 | 2.67 | 5.00 |
| Total | 1.33 | 5.00 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| FA | Between Groups | 15.503 | 2 | 7.752 | 11.174 | <.001 |
| Within Groups | 47.866 | 69 | .694 |  |  |
| Total | 63.369 | 71 |  |  |  |
| PU | Between Groups | 4.410 | 2 | 2.205 | 2.794 | .068 |
| Within Groups | 54.454 | 69 | .789 |  |  |
| Total | 58.864 | 71 |  |  |  |
| AE | Between Groups | 23.861 | 2 | 11.931 | 16.607 | <.001 |
| Within Groups | 49.569 | 69 | .718 |  |  |
| Total | 73.431 | 71 |  |  |  |
| RW | Between Groups | 9.028 | 2 | 4.514 | 8.662 | <.001 |
| Within Groups | 35.958 | 69 | .521 |  |  |
| Total | 44.986 | 71 |  |  |  |

Post Hoc Tests

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Tukey HSD | | | | | | |
| Dependent Variable | (I) IT | (J) IT | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |
| Lower Bound |
| FA | 1.00 | 2.00 | -.80556\* | .24043 | .004 | -1.3815 |
| 3.00 | -1.09722\* | .24043 | <.001 | -1.6731 |
| 2.00 | 1.00 | .80556\* | .24043 | .004 | .2296 |
| 3.00 | -.29167 | .24043 | .450 | -.8676 |
| 3.00 | 1.00 | 1.09722\* | .24043 | <.001 | .5213 |
| 2.00 | .29167 | .24043 | .450 | -.2842 |
| PU | 1.00 | 2.00 | .38889 | .25645 | .290 | -.2254 |
| 3.00 | .59722 | .25645 | .058 | -.0170 |
| 2.00 | 1.00 | -.38889 | .25645 | .290 | -1.0032 |
| 3.00 | .20833 | .25645 | .697 | -.4059 |
| 3.00 | 1.00 | -.59722 | .25645 | .058 | -1.2115 |
| 2.00 | -.20833 | .25645 | .697 | -.8226 |
| AE | 1.00 | 2.00 | -.95833\* | .24468 | <.001 | -1.5444 |
| 3.00 | -1.37500\* | .24468 | <.001 | -1.9611 |
| 2.00 | 1.00 | .95833\* | .24468 | <.001 | .3723 |
| 3.00 | -.41667 | .24468 | .211 | -1.0027 |
| 3.00 | 1.00 | 1.37500\* | .24468 | <.001 | .7889 |
| 2.00 | .41667 | .24468 | .211 | -.1694 |
| RW | 1.00 | 2.00 | -.62500\* | .20839 | .010 | -1.1242 |
| 3.00 | -.83333\* | .20839 | <.001 | -1.3325 |
| 2.00 | 1.00 | .62500\* | .20839 | .010 | .1258 |
| 3.00 | -.20833 | .20839 | .580 | -.7075 |
| 3.00 | 1.00 | .83333\* | .20839 | <.001 | .3342 |
| 2.00 | .20833 | .20839 | .580 | -.2908 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Multiple Comparisons** | | | |
| Tukey HSD | | | |
| Dependent Variable | (I) IT | (J) IT | 95% Confidence Interval |
| Upper Bound |
| FA | 1.00 | 2.00 | -.2296 |
| 3.00 | -.5213 |
| 2.00 | 1.00 | 1.3815 |
| 3.00 | .2842 |
| 3.00 | 1.00 | 1.6731 |
| 2.00 | .8676 |
| PU | 1.00 | 2.00 | 1.0032 |
| 3.00 | 1.2115 |
| 2.00 | 1.00 | .2254 |
| 3.00 | .8226 |
| 3.00 | 1.00 | .0170 |
| 2.00 | .4059 |
| AE | 1.00 | 2.00 | -.3723 |
| 3.00 | -.7889 |
| 2.00 | 1.00 | 1.5444 |
| 3.00 | .1694 |
| 3.00 | 1.00 | 1.9611 |
| 2.00 | 1.0027 |
| RW | 1.00 | 2.00 | -.1258 |
| 3.00 | -.3342 |
| 2.00 | 1.00 | 1.1242 |
| 3.00 | .2908 |
| 3.00 | 1.00 | 1.3325 |
| 2.00 | .7075 |

|  |
| --- |
| \*. The mean difference is significant at the 0.05 level. |

Homogeneous Subsets

|  |  |  |  |
| --- | --- | --- | --- |
| **FA** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 3.3333 |  |
| 2.00 | 24 |  | 4.1389 |
| 3.00 | 24 |  | 4.4306 |
| Sig. |  | 1.000 | .450 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |
| --- | --- | --- |
| **PU** | | |
| Tukey HSDa | | |
| IT | N | Subset for alpha = 0.05 |
| 1 |
| 3.00 | 24 | 1.7500 |
| 2.00 | 24 | 1.9583 |
| 1.00 | 24 | 2.3472 |
| Sig. |  | .058 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |  |
| --- | --- | --- | --- |
| **AE** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 3.0972 |  |
| 2.00 | 24 |  | 4.0556 |
| 3.00 | 24 |  | 4.4722 |
| Sig. |  | 1.000 | .211 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

|  |  |  |  |
| --- | --- | --- | --- |
| **RW** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 3.7222 |  |
| 2.00 | 24 |  | 4.3472 |
| 3.00 | 24 |  | 4.5556 |
| Sig. |  | 1.000 | .580 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

Oneway

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 24-AUG-2021 16:30:27 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\SPSSData\IMI\_UES\_total.sav |
| Active Dataset | 数据集1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on cases with no missing data for any variable in the analysis. |
| Syntax | | ONEWAY IMI BY IT  /STATISTICS DESCRIPTIVES  /MISSING ANALYSIS  /CRITERIA=CILEVEL(0.95)  /POSTHOC=TUKEY ALPHA(0.05). |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.01 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | |
| IMI | | | | | | |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | |
| Lower Bound | Upper Bound |
| 1.00 | 24 | 4.2893 | .77334 | .15786 | 3.9627 | 4.6158 |
| 2.00 | 24 | 4.6595 | .60383 | .12326 | 4.4045 | 4.9145 |
| 3.00 | 24 | 4.8851 | .57676 | .11773 | 4.6416 | 5.1287 |
| Total | 72 | 4.6113 | .69339 | .08172 | 4.4484 | 4.7742 |

|  |  |  |
| --- | --- | --- |
| **Descriptives** | | |
| IMI | | |
|  | Minimum | Maximum |
|
| 1.00 | 2.76 | 5.50 |
| 2.00 | 3.10 | 5.60 |
| 3.00 | 3.91 | 6.00 |
| Total | 2.76 | 6.00 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | |
| IMI | | | | | |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 4.344 | 2 | 2.172 | 5.030 | .009 |
| Within Groups | 29.793 | 69 | .432 |  |  |
| Total | 34.136 | 71 |  |  |  |

Post Hoc Tests

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Dependent Variable: IMI | | | | | | |
| Tukey HSD | | | | | | |
| (I) IT | (J) IT | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1.00 | 2.00 | -.37024 | .18969 | .132 | -.8246 | .0841 |
| 3.00 | -.59583\* | .18969 | .007 | -1.0502 | -.1415 |
| 2.00 | 1.00 | .37024 | .18969 | .132 | -.0841 | .8246 |
| 3.00 | -.22560 | .18969 | .464 | -.6800 | .2288 |
| 3.00 | 1.00 | .59583\* | .18969 | .007 | .1415 | 1.0502 |
| 2.00 | .22560 | .18969 | .464 | -.2288 | .6800 |

|  |
| --- |
| \*. The mean difference is significant at the 0.05 level. |

Homogeneous Subsets

|  |  |  |  |
| --- | --- | --- | --- |
| **IMI** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 4.2893 |  |
| 2.00 | 24 | 4.6595 | 4.6595 |
| 3.00 | 24 |  | 4.8851 |
| Sig. |  | .132 | .464 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |

Oneway

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 24-AUG-2021 16:30:40 |
| Comments | |  |
| Input | Data | C:\Users\admin\Desktop\SPSSData\IMI\_UES\_total.sav |
| Active Dataset | 数据集1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 72 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each analysis are based on cases with no missing data for any variable in the analysis. |
| Syntax | | ONEWAY UES BY IT  /STATISTICS DESCRIPTIVES  /MISSING ANALYSIS  /CRITERIA=CILEVEL(0.95)  /POSTHOC=TUKEY ALPHA(0.05). |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.01 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | |
| UES | | | | | | |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | |
| Lower Bound | Upper Bound |
| 1.00 | 24 | 3.1250 | .46235 | .09438 | 2.9298 | 3.3202 |
| 2.00 | 24 | 3.6250 | .42063 | .08586 | 3.4474 | 3.8026 |
| 3.00 | 24 | 3.8021 | .48517 | .09904 | 3.5972 | 4.0070 |
| Total | 72 | 3.5174 | .53496 | .06305 | 3.3917 | 3.6431 |

|  |  |  |
| --- | --- | --- |
| **Descriptives** | | |
| UES | | |
|  | Minimum | Maximum |
|
| 1.00 | 2.08 | 4.33 |
| 2.00 | 2.50 | 4.33 |
| 3.00 | 2.67 | 4.67 |
| Total | 2.08 | 4.67 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | |
| UES | | | | | |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 5.918 | 2 | 2.959 | 14.179 | <.001 |
| Within Groups | 14.400 | 69 | .209 |  |  |
| Total | 20.319 | 71 |  |  |  |

Post Hoc Tests

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Dependent Variable: UES | | | | | | |
| Tukey HSD | | | | | | |
| (I) IT | (J) IT | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1.00 | 2.00 | -.50000\* | .13188 | <.001 | -.8159 | -.1841 |
| 3.00 | -.67708\* | .13188 | <.001 | -.9930 | -.3612 |
| 2.00 | 1.00 | .50000\* | .13188 | <.001 | .1841 | .8159 |
| 3.00 | -.17708 | .13188 | .377 | -.4930 | .1388 |
| 3.00 | 1.00 | .67708\* | .13188 | <.001 | .3612 | .9930 |
| 2.00 | .17708 | .13188 | .377 | -.1388 | .4930 |

|  |
| --- |
| \*. The mean difference is significant at the 0.05 level. |

Homogeneous Subsets

|  |  |  |  |
| --- | --- | --- | --- |
| **UES** | | | |
| Tukey HSDa | | | |
| IT | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| 1.00 | 24 | 3.1250 |  |
| 2.00 | 24 |  | 3.6250 |
| 3.00 | 24 |  | 3.8021 |
| Sig. |  | 1.000 | .377 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 24.000. |