**Cross tables: Gold standard by Student with Correct cases excluded**

1. **Undergraduates**

GET

FILE='C:\Users\user\Desktop\2021\Grobler T19037 Dr GP\SPSS data sets\Crosstab\_Undergraduates\_Incorrect 17 February 2021.sav'.

DATASET NAME DataSet1 WINDOW=FRONT.

WEIGHT BY Nr.

CROSSTABS

/TABLES=Goldcriterion BY Student

/FORMAT=AVALUE TABLES

/STATISTICS=CHISQ

/CELLS=COUNT EXPECTED ROW SRESID

/COUNT ROUND CELL.

**Crosstabs**

[DataSet1] C:\Users\user\Desktop\2021\Grobler T19037 Dr GP\SPSS data sets\Crosstab\_Undergraduates\_Incorrect 17 February 2021.sav

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | |
|  | Cases | | | | | |
| Valid | | Missing | | Total | |
| N | Percent | N | Percent | N | Percent |
| Goldcriterion \* Student | 639 | 100.0% | 0 | 0.0% | 636.500 | 100.0% |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Goldcriterion \* Student Crosstabulation** | | | | | | | | |
|  | | | Student | | | | | Total |
| - | A | D | I | V |
| Goldcriterion | A | Count | 2 | 1 | 23 | 112 | 38 | 176 |
| Expected Count | 1.4 | 32.8 | 49.9 | 66.9 | 25.1 | 176.0 |
| % within Goldcriterion | 1.1% | 0.6% | 13.1% | 63.6% | 21.6% | 100.0% |
| Standardized Residual | .5 | -5.6 | -3.8 | 5.5 | 2.6 |  |
| D | Count | 1 | 34 | 1 | 126 | 50 | 212 |
| Expected Count | 1.7 | 39.5 | 60.1 | 80.6 | 30.2 | 212.0 |
| % within Goldcriterion | 0.5% | 16.0% | 0.5% | 59.4% | 23.6% | 100.0% |
| Standardized Residual | -.5 | -.9 | -7.6 | 5.1 | 3.6 |  |
| I | Count | 1 | 32 | 77 | 1 | 2 | 113 |
| Expected Count | .9 | 21.0 | 32.0 | 43.0 | 16.1 | 113.0 |
| % within Goldcriterion | 0.9% | 28.3% | 68.1% | 0.9% | 1.8% | 100.0% |
| Standardized Residual | .1 | 2.4 | 8.0 | -6.4 | -3.5 |  |
| V | Count | 1 | 52 | 80 | 4 | 1 | 138 |
| Expected Count | 1.1 | 25.7 | 39.1 | 52.5 | 19.7 | 138.0 |
| % within Goldcriterion | 0.7% | 37.7% | 58.0% | 2.9% | 0.7% | 100.0% |
| Standardized Residual | -.1 | 5.2 | 6.5 | -6.7 | -4.2 |  |
| Total | | Count | 5 | 119 | 181 | 243 | 91 | 639 |
| Expected Count | 5.0 | 119.0 | 181.0 | 243.0 | 91.0 | 639.0 |
| % within Goldcriterion | 0.8% | 18.6% | 28.3% | 38.0% | 14.2% | 100.0% |

|  |  |  |  |
| --- | --- | --- | --- |
| **Chi-Square Tests** | | | |
|  | Value | df | Asymptotic Significance (2-sided) |
| Pearson Chi-Square | 434.735a | 12 | <0.001 |
| Likelihood Ratio | 557.070 | 12 | .000 |
| N of Valid Cases | 639 |  |  |
| a. 4 cells (20.0%) have expected count less than 5. The minimum expected count is .88. | | | |

1. **Postgraduates**

WEIGHT BY Nr.

**Crosstabs**

[DataSet1] C:\Users\user\Desktop\2021\Grobler T19037 Dr GP\SPSS data sets\Crosstab\_Postgraduates\_Incorrect 17 February 2021.sav

CROSSTABS

/TABLES=Goldcriterion BY Student

/FORMAT=AVALUE TABLES

/STATISTICS=CHISQ

/CELLS=COUNT EXPECTED ROW SRESID

/COUNT ROUND CELL.

**Crosstabs**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | |
|  | Cases | | | | | |
| Valid | | Missing | | Total | |
| N | Percent | N | Percent | N | Percent |
| Goldcriterion \* Student | 50 | 100.0% | 0 | 0.0% | 46 | 100.0% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Goldcriterion \* Student Crosstabulation** | | | | | | | |
|  | | | Student | | | | Total |
| A | D | I | V |
| Goldcriterion | A | Count | 1 | 1 | 12 | 1 | 15 |
| Expected Count | 3.0 | 2.7 | 6.6 | 2.7 | 15.0 |
| % within Goldcriterion | 6.7% | 6.7% | 80.0% | 6.7% | 100.0% |
| Standardized Residual | -1.2 | -1.0 | 2.1 | -1.0 |  |
| D | Count | 2 | 1 | 8 | 6 | 17 |
| Expected Count | 3.4 | 3.1 | 7.5 | 3.1 | 17.0 |
| % within Goldcriterion | 11.8% | 5.9% | 47.1% | 35.3% | 100.0% |
| Standardized Residual | -.8 | -1.2 | .2 | 1.7 |  |
| I | Count | 3 | 3 | 1 | 1 | 8 |
| Expected Count | 1.6 | 1.4 | 3.5 | 1.4 | 8.0 |
| % within Goldcriterion | 37.5% | 37.5% | 12.5% | 12.5% | 100.0% |
| Standardized Residual | 1.1 | 1.3 | -1.3 | -.4 |  |
| V | Count | 4 | 4 | 1 | 1 | 10 |
| Expected Count | 2.0 | 1.8 | 4.4 | 1.8 | 10.0 |
| % within Goldcriterion | 40.0% | 40.0% | 10.0% | 10.0% | 100.0% |
| Standardized Residual | 1.4 | 1.6 | -1.6 | -.6 |  |
| Total | | Count | 10 | 9 | 22 | 9 | 50 |
| Expected Count | 10.0 | 9.0 | 22.0 | 9.0 | 50.0 |
| % within Goldcriterion | 20.0% | 18.0% | 44.0% | 18.0% | 100.0% |

|  |  |  |  |
| --- | --- | --- | --- |
| **Chi-Square Tests** | | | |
|  | Value | df | Asymptotic Significance (2-sided) |
| Pearson Chi-Square | 25.242a | 9 | .003 |
| Likelihood Ratio | 25.698 | 9 | .002 |
| N of Valid Cases | 50 |  |  |
| a. 14 cells (87.5%) have expected count less than 5. The minimum expected count is 1.44. | | | |

WEIGHT BY Nr.

CROSSTABS

/TABLES=Goldcriterion BY Student

/FORMAT=AVALUE TABLES

/STATISTICS=CHISQ

/CELLS=COUNT EXPECTED ROW SRESID

/COUNT ROUND CELL

/METHOD=EXACT TIMER(5).

**Crosstabs**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | |
|  | Cases | | | | | |
| Valid | | Missing | | Total | |
| N | Percent | N | Percent | N | Percent |
| Goldcriterion \* Student | 50 | 100.0% | 0 | 0.0% | 46 | 100.0% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Goldcriterion \* Student Crosstabulation** | | | | | | | |
|  | | | Student | | | | Total |
| A | D | I | V |
| Goldcriterion | A | Count | 1 | 1 | 12 | 1 | 15 |
| Expected Count | 3.0 | 2.7 | 6.6 | 2.7 | 15.0 |
| % within Goldcriterion | 6.7% | 6.7% | 80.0% | 6.7% | 100.0% |
| Standardized Residual | -1.2 | -1.0 | 2.1 | -1.0 |  |
| D | Count | 2 | 1 | 8 | 6 | 17 |
| Expected Count | 3.4 | 3.1 | 7.5 | 3.1 | 17.0 |
| % within Goldcriterion | 11.8% | 5.9% | 47.1% | 35.3% | 100.0% |
| Standardized Residual | -.8 | -1.2 | .2 | 1.7 |  |
| I | Count | 3 | 3 | 1 | 1 | 8 |
| Expected Count | 1.6 | 1.4 | 3.5 | 1.4 | 8.0 |
| % within Goldcriterion | 37.5% | 37.5% | 12.5% | 12.5% | 100.0% |
| Standardized Residual | 1.1 | 1.3 | -1.3 | -.4 |  |
| V | Count | 4 | 4 | 1 | 1 | 10 |
| Expected Count | 2.0 | 1.8 | 4.4 | 1.8 | 10.0 |
| % within Goldcriterion | 40.0% | 40.0% | 10.0% | 10.0% | 100.0% |
| Standardized Residual | 1.4 | 1.6 | -1.6 | -.6 |  |
| Total | | Count | 10 | 9 | 22 | 9 | 50 |
| Expected Count | 10.0 | 9.0 | 22.0 | 9.0 | 50.0 |
| % within Goldcriterion | 20.0% | 18.0% | 44.0% | 18.0% | 100.0% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chi-Square Tests** | | | | |
|  | Value | df | Asymptotic Significance (2-sided) | Exact Sig. (2-sided) |
| Pearson Chi-Square | 25.242a | 9 | .003 | .002 |
| Likelihood Ratio | 25.698 | 9 | .002 | .006 |
| Fisher-Freeman-Halton Exact Test | 22.983 |  |  | .001 |
| N of Valid Cases | 50 |  |  |  |
| a. 14 cells (87.5%) have expected count less than 5. The minimum expected count is 1.44. | | | | |

1. **Combined data set**

[DataSet2] C:\Users\user\Desktop\2021\Grobler T19037 Dr GP\SPSS data sets\Crosstab\_Combined\_Incorrect 17 February 2021.sav

WEIGHT BY Nr.

CROSSTABS

/TABLES=Goldcriterion BY Student

/FORMAT=AVALUE TABLES

/STATISTICS=CHISQ

/CELLS=COUNT EXPECTED ROW SRESID

/COUNT ROUND CELL.

**Crosstabs**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | |
|  | Cases | | | | | |
| Valid | | Missing | | Total | |
| N | Percent | N | Percent | N | Percent |
| Goldcriterion \* Student | 691 | 100.0% | 0 | 0.0% | 688.500 | 100.0% |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Goldcriterion \* Student Crosstabulation** | | | | | | | | |
|  | | | Student | | | | | Total |
| - | A | D | I | V |
| Goldcriterion | A | Count | 2 | 1 | 23 | 124 | 38 | 188 |
| Expected Count | 1.4 | 34.8 | 53.9 | 71.6 | 26.4 | 188.0 |
| % within Goldcriterion | 1.1% | 0.5% | 12.2% | 66.0% | 20.2% | 100.0% |
| Standardized Residual | .5 | -5.7 | -4.2 | 6.2 | 2.3 |  |
| D | Count | 1 | 36 | 1 | 134 | 56 | 228 |
| Expected Count | 1.6 | 42.2 | 65.3 | 86.8 | 32.0 | 228.0 |
| % within Goldcriterion | 0.4% | 15.8% | 0.4% | 58.8% | 24.6% | 100.0% |
| Standardized Residual | -.5 | -1.0 | -8.0 | 5.1 | 4.2 |  |
| I | Count | 1 | 35 | 80 | 1 | 2 | 119 |
| Expected Count | .9 | 22.0 | 34.1 | 45.3 | 16.7 | 119.0 |
| % within Goldcriterion | 0.8% | 29.4% | 67.2% | 0.8% | 1.7% | 100.0% |
| Standardized Residual | .1 | 2.8 | 7.9 | -6.6 | -3.6 |  |
| V | Count | 1 | 56 | 94 | 4 | 1 | 156 |
| Expected Count | 1.1 | 28.9 | 44.7 | 59.4 | 21.9 | 156.0 |
| % within Goldcriterion | 0.6% | 35.9% | 60.3% | 2.6% | 0.6% | 100.0% |
| Standardized Residual | -.1 | 5.0 | 7.4 | -7.2 | -4.5 |  |
| Total | | Count | 5 | 128 | 198 | 263 | 97 | 691 |
| Expected Count | 5.0 | 128.0 | 198.0 | 263.0 | 97.0 | 691.0 |
| % within Goldcriterion | 0.7% | 18.5% | 28.7% | 38.1% | 14.0% | 100.0% |

|  |  |  |  |
| --- | --- | --- | --- |
| **Chi-Square Tests** | | | |
|  | Value | df | Asymptotic Significance (2-sided) |
| Pearson Chi-Square | 479.680a | 12 | <0.001 |
| Likelihood Ratio | 616.430 | 12 | .000 |
| N of Valid Cases | 691 |  |  |
| a. 4 cells (20.0%) have expected count less than 5. The minimum expected count is .86. | | | |