Correlation Tables

If you are reporting single correlations you don’t need a table. If you have more than two variables being compared at once then you need a table.

Here are a number of different solutions for the same data. The problem is to display the data in the most readable manner. Essentially what we have done in each iteration is to remove information from the table that does not carry much meaning in order to make the rest of the data in the table easier to interpret.

There are 5 versions of the table here with versions 2 and 3 probably being the most common. If you have more than 7 or 8 variables in your table you should consider versions 3 through 5 for your paper.

**Version 1**: Here is the full version of the table. There is so much information here that the type size is reduced to get it all onto the page.

Table 1

*Correlations of Supervisor Ratings from Student Teaching Evaluations (STE) and Work Sample Evaluations (WSE), P-12 Student Learning Gains, and Candidate Content Assessments (N = 90)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | STE Planning | STE Climate | STE Engaging | STE Evaluation | STE Dispositions | WSE Planning | WSE Climate | WSE Engaging | WSE Evaluation | Learning Gain | ORELA I | ORELA II |
| STE Planning | — |  |  |  |  |  |  |  |  |  |  |  |
| STE Climate | .84\* | — |  |  |  |  |  |  |  |  |  |  |
| STE Engaging | .79\* | .78\* | — |  |  |  |  |  |  |  |  |  |
| STE Evaluation | .79\* | .79\* | .77\* | — |  |  |  |  |  |  |  |  |
| STE Dispositions | .64\* | .69\* | .64\* | .67\* | — |  |  |  |  |  |  |  |
| WSE Planning | .38\* | .37\* | .40\* | .42\* | .23\* | — |  |  |  |  |  |  |
| WSE Climate | .37\* | .40\* | .42\* | .43\* | .26\* | .66\* | — |  |  |  |  |  |
| WSE Engaging | .47\* | .42\* | .45\* | .47\* | .32\* | .63\* | .62\* | — |  |  |  |  |
| WSE Evaluation | .45\* | .41\* | .46\* | .52\* | .24\* | .71\* | .70\* | .58\* | — |  |  |  |
| Learning Gain | -.11\* | -.01\* | -.09\* | -.15\* | -.10\* | .08\* | .18\* | .01\* | .04\* | — |  |  |
| ORELA I | -.03\* | -.09\* | -.03\* | -.03\* | -.03\* | .17\* | .13\* | .30\* | .12\* | -.13\* | — |  |
| ORELA II | -.09\* | -.15\* | -.02\* | -.06\* | .03\* | .05\* | .14\* | .03\* | .00\* | .09\* | .51\* | — |

\**p* < .05

**Version 2**: Here it is again but the variables are only named in the first column and letter references to the variables are in the first row. This allows the columns to be narrower.

Table 1

*Correlations of Supervisor Ratings from Student Teaching Evaluations (STE) and Work Sample Evaluations (WSE), P-12 Student Learning Gains, and Candidate Content Assessments (N = 90)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J | K | L |
| A. STE Planning | — |  |  |  |  |  |  |  |  |  |  |  |
| B. STE Climate | .84\* | — |  |  |  |  |  |  |  |  |  |  |
| C. STE Engaging | .79\* | .78\* | — |  |  |  |  |  |  |  |  |  |
| D. STE Evaluation | .79\* | .79\* | .77\* | — |  |  |  |  |  |  |  |  |
| E. STE Dispositions | .64\* | .69\* | .64\* | .67\* | — |  |  |  |  |  |  |  |
| F. WSE Planning | .38\* | .37\* | .40\* | .42\* | .23\* | — |  |  |  |  |  |  |
| G. WSE Climate | .37\* | .40\* | .42\* | .43\* | .26\* | .66\* | — |  |  |  |  |  |
| H. WSE Engaging | .47\* | .42\* | .45\* | .47\* | .32\* | .63\* | .62\* | — |  |  |  |  |
| I. WSE Evaluation | .45\* | .41\* | .46\* | .52\* | .24\* | .71\* | .70\* | .58\* | — |  |  |  |
| J. Learning Gain | -.11\* | -.01\* | -.09\* | -.15\* | -.10\* | .08\* | .18\* | .01\* | .04\* | — |  |  |
| K. ORELA I | -.03\* | -.09\* | -.03\* | -.03\* | -.03\* | .17\* | .13\* | .30\* | .12\* | -.13\* | — |  |
| L. ORELA II | -.09\* | -.15\* | -.02\* | -.06\* | .03\* | .05\* | .14\* | .03\* | .00\* | .09\* | .51\* | — |

\**p* < .05

**Version 3**: Here it is again with all of the not statistically significant correlations removed from the table. The asterisks indicating significance are also remove and a general note about statistical significance is added under the table.

Table 1

*Correlations of Supervisor Ratings from Student Teaching Evaluations (STE) and Work Sample Evaluations (WSE), P-12 Student Learning Gains, and Candidate Content Assessments (N = 90)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J | K | L |
| A. STE Planning | — |  |  |  |  |  |  |  |  |  |  |  |
| B. STE Climate | .84 | — |  |  |  |  |  |  |  |  |  |  |
| C. STE Engaging | .79 | .78 | — |  |  |  |  |  |  |  |  |  |
| D. STE Evaluation | .79 | .79 | .77 | — |  |  |  |  |  |  |  |  |
| E. STE Dispositions | .64 | .69 | .64 | .67 | — |  |  |  |  |  |  |  |
| F. WSE Planning | .38 | .37 | .40 | .42 | .23 | — |  |  |  |  |  |  |
| G. WSE Climate | .37 | .40 | .42 | .43 | .26 | .66 | — |  |  |  |  |  |
| H. WSE Engaging | .47 | .42 | .45 | .47 | .32 | .63 | .62 | — |  |  |  |  |
| I. WSE Evaluation | .45 | .41 | .46 | .52 | .24 | .71 | .70 | .58 | — |  |  |  |
| J. Learning Gain |  |  |  |  |  |  |  |  |  | — |  |  |
| K. ORELA I |  |  |  |  |  |  |  | .30 |  |  | — |  |
| L. ORELA II |  |  |  |  |  |  |  |  |  |  | .51 | — |

*Correlations that were not statistically significant at p < .05 are not posted.*

**Version 4**: In this version all of the cells that do not have information are removed when possible. The first row and the last column are removed. The em dashes in the cells that show each variable correlated with itself are removed. The idea here is to make it faster for the reader to get the important data from the table.

Table 1

*Correlations of Supervisor Ratings from Student Teaching Evaluations (STE) and Work Sample Evaluations (WSE), P-12 Student Learning Gains, and Candidate Content Assessments (N = 90)*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J | K |
| B. STE Climate | .84 |  |  |  |  |  |  |  |  |  |  |
| C. STE Engaging | .79 | .78 |  |  |  |  |  |  |  |  |  |
| D. STE Evaluation | .79 | .79 | .77 |  |  |  |  |  |  |  |  |
| E. STE Dispositions | .64 | .69 | .64 | .67 |  |  |  |  |  |  |  |
| F. WSE Planning | .38 | .37 | .40 | .42 | .23 |  |  |  |  |  |  |
| G. WSE Climate | .37 | .40 | .42 | .43 | .26 | .66 |  |  |  |  |  |
| H. WSE Engaging | .47 | .42 | .45 | .47 | .32 | .63 | .62 |  |  |  |  |
| I. WSE Evaluation | .45 | .41 | .46 | .52 | .24 | .71 | .70 | .58 |  |  |  |
| J. Learning Gain |  |  |  |  |  |  |  |  |  |  |  |
| K. ORELA I |  |  |  |  |  |  |  | .30 |  |  |  |
| L. ORELA II |  |  |  |  |  |  |  |  |  |  | .51 |

*Correlations that were not statistically significant at p < .05 are not posted.*

**Version 5**: In the previous version columns I and J and the Learning Gain row don’t include any information but if they are removed the column heading letters are no longer sequential. In this version those columns and row are removed and the column heading text is reinserted. All of the important data are in the table but this is a little unconventional and you risk reader confusion because they may not have seen a table designed in this fashion.

Table 1

*Correlations of Supervisor Ratings from Student Teaching Evaluations (STE) and Work Sample Evaluations (WSE), and Candidate Content Assessments (N = 90)*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | STE Planning | STE Climate | STE Engaging | STE Evaluation | STE Dispositions | WSE Planning | WSE Climate | WSE Engaging | ORELA I |
| STE Climate | .84 |  |  |  |  |  |  |  |  |
| STE Engaging | .79 | .78 |  |  |  |  |  |  |  |
| STE Evaluation | .79 | .79 | .77 |  |  |  |  |  |  |
| STE Dispositions | .64 | .69 | .64 | .67 |  |  |  |  |  |
| WSE Planning | .38 | .37 | .40 | .42 | .23 |  |  |  |  |
| WSE Climate | .37 | .40 | .42 | .43 | .26 | .66 |  |  |  |
| WSE Engaging | .47 | .42 | .45 | .47 | .32 | .63 | .62 |  |  |
| WSE Evaluation | .45 | .41 | .46 | .52 | .24 | .71 | .70 | .58 |  |
| ORELA I |  |  |  |  |  |  |  | .30 |  |
| ORELA II |  |  |  |  |  |  |  |  | .51 |

*Correlations that were not statistically significant at p < .05 are not posted.*