

EDUA 7850 - Design & Analysis of Educational Research (Quantitative)

Assignment 5

Due: Wednesday Feb 26, 2020 (no class next week - Feb 19)

Data file - college student data.sav

Note: (1) As mentioned in class, we will interpret all assumptions in this data file as not being violated to such an extreme to clearly warrant the use of non-parametric tests. Therefore, we can focus on ANOVA only for this assignment. (2) Use Tukey for all post-hoc tests when needed.

1. Perform an ANOVA to answer the following research question. Be sure to include all relevant analyses (i.e., post-hoc analyses when needed).
 - 1.1. Is there a difference between students who are either single, married or divorced in terms of academic achievement?
 - 1.2. Prepare a brief written interpretation of the results of your analysis in 1.1.
2. Create a new variable called *hrstv2*.
3. Group the values of the continuous variable *hrstv* into the following categories within *hrstv2*

<i>hrstv</i>	<i>hrstv2</i>
0 to 8	1 (small amount of tv)
9 to 14	2 (moderate amount of tv)
15 and over	3 (large amount tv)

4. Perform an ANOVA to answer the following research question. Be sure to include all relevant analyses.
 - 4.1. Is there a relationship between watching either a small, moderate, or large amount of television and academic achievement?
 - 4.2. Prepare a brief written interpretation of the results of your analysis in 4.1.
5. Compute the correlation between *hrstv* and *curr GPA*.
 - 5.1. Prepare a very brief interpretation of this correlation.
6. Compare your interpretation in 4.2 to that of 5.1. Prepare a brief summary of your comparison.
7. Be sure to include the following parts for this assignment. These can be submitted as separate files.
 - 7.1. Revised data file (lastname data assign 5.sav)
 - 7.2. Output file (lastname output assign 5.spv)
 - 7.3. Interpretation of results (lastname results assign 5.docx)