The purpose of this assignment is to learn how to apply the t-test to a sample dataset.

For this assignment, students will use IBM SPSS Statistics and the "Example Dataset."

Using the "Example Dataset" and SPSS, apply the t-test to assess the following statement: "Men and women have different incomes in this city."

Show your calculations and copy of the SPSS output in a Word document.

In a separate 250-500 Word document, address the following questions:

1. Describe what t-test is the most appropriate and explain why. Discuss whether you used a one-tailed or two-tailed test and explain why.
2. Using SPSS, calculate the t-test and provide the test statistic and critical value assuming an alpha of .05.
3. Calculate the effect size using *r2*.
4. Interpret the results by (a) stating the reason the study or test was done, (b) presenting the main results, (c) explaining what the results mean, and (d) making suggestions for future research.