EDUC 7334 Final project

The purpose of this final project is to apply the statistical analyses you have learned throughout this semester. There will be multiple questions that will require multiple analyses and interpretation.

Scenario set up: A leadership team was interested in knowing the types of leaders in their organization. A demographic survey and leadership survey were distributed to their colleagues (This is the data you collected and put into SPSS). There are multiple pieces of information the team wants to learn about their colleagues.

You may have noticed that on that leadership survey there was a way to score the different aspects of leadership (administrative, interpersonal, conceptual) see below.

Text

Description automatically generated

You will need to use the COMPUTE function in SPSS to calculate three more variables (admin\_skill, interpersonal\_skill, Conceptual\_skill) from your data file so that you have a score for each of the categories above. This is MOST likely something you will end up doing for your dissertation data so this is good practice.

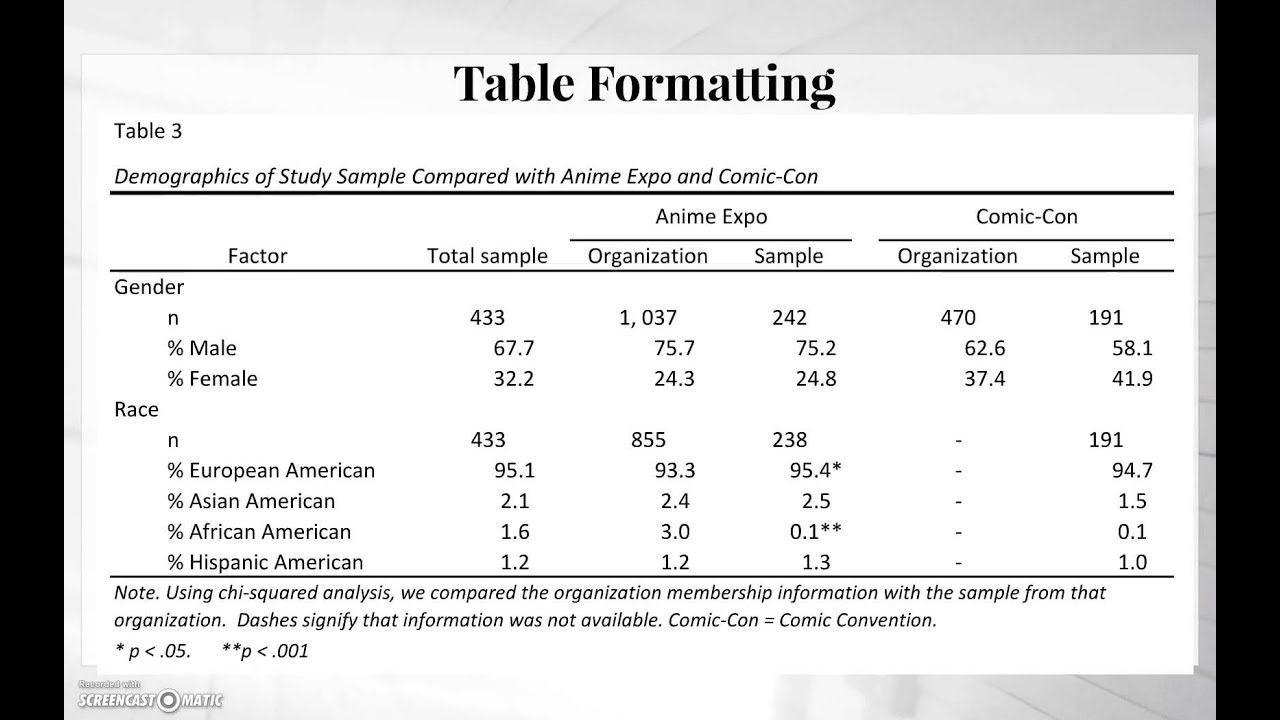
**1. Generate descriptive statistics for all your demographic and the three main leadership variables (administrative, interpersonal and conceptual)**. Paste the necessary tables below. HINT: pay attention to the type of data (nominal, ordinal, scale) you have as this will make a difference in the kind of descriptives you run. Paste the tables below

2. Generate APA tables for your descriptive statistics

3. Select two nominal variables and two scale variables and generate APA graphs of the descriptive statistics

4. Examine your descriptive outcome and write a short paragraph summarizing your descriptive statistics.

**EXAMPLE of an APA Table – note this is just one of many – create a table or tables that BEST represent your data. Check out this link:** [**https://apastyle.apa.org/style-grammar-guidelines/tables-figures/tables**](https://apastyle.apa.org/style-grammar-guidelines/tables-figures/tables)



**Research question 1: Is there a significant difference in admin\_skill, interperonsal\_skill, and conceptual\_skill between males and females?**

5. Run an independent t test and paste your tables below

6. Generate an APA table of your results

7. Generate a bar graph for each leadership category that shows the difference between males and females. HINT – you should have three separate bar graphs

EXAMPLE: your bar graph should look something like this.

Chart, bar chart

Description automatically generated

8. Write a concluding paragraph regarding the outcome of your findings.

**Research question 2: Is there a significant difference in admin\_skill, interperonsal\_skill, and conceptual\_skill between (select an independent variable here that has MORE than two groups)?**

9. Select an independent variable with more than two groups then run an ANOVA analysis and paste your tables below

10. Generate an APA table for your results

**Research question 3: For this question I want you to run regression. This means you must pick your dependent variable and include at least TWO independent variables (you can add more if you desire but no more than four) for the regression equation.**

11. Run the regression analysis to answer this question and paste your tables below

12. How do you know if the model is significant?

13. How much does the model contribute to the prediction of the dependent variable?

14. Generate the prediction equation

**Research question 4: For this question I want you to run a correlation. Pick any FOUR variables of your choosing?**

15. Run the correlation analysis and paste the tables below

16. Generate an APA table of the correlations

17. Generate a scatterplot that includes the line of best fit between any two variables that you ran the correlation on.

18. Write the results of the study

19. Write a summary of the findings as it relates to the real world

**Final Presentation**

**a. Select ONE of the research questions and present your findings. See my example**

**b. Submit this document under final project and presentation module AND the artifact module**

**c. Create a presentation using the studio option in Canvas. Paste the link of your presentation here:**