**Stats Assignment 1**

The dataset ***hourlywagedata.sav (alternatively hourlywagedata.xls)*** includes position type, age-range, years of experience and hourly wage from a group of nurses.

Full written solutions are expected with proper statistical notation. Ensure to include the following in your responses:

1. Null & Alternate Hypotheses

2. Statistical Methodology used and why. This includes any accommodation for data issues.

3. Results, interpretation, explanation, which include:

a. Response to the null hypothesis

b. Findings

c. Statistical notation

d. Explanation in words (including any valuable information such as means or frequencies)

e. Any appropriate follow-up tests and their explanation

**Questions:**

1. Is the hourly wage significantly different for nurses that work in offices vs. hospitals? If so, describe how it differs. (5 marks)
2. Is the hourly wage significantly different for nurses depending on years of experience? If so, describe how it differs. (5 marks)
3. Is the relationship between hourly wage and years of experience consistent when comparing nurses that work in the hospital with nurses that work in an office? If not, describe how it is different (10 marks)
4. What is your overall conclusion about the factors that are associated with higher hourly wages for nurses? Provide specific statistical examples to support your conclusions and include one chart to illustrate. (5 marks)