

**Instructions:** This quiz is to be completed entirely in class. You may not use cell phones, and you may only access internet resources you are specifically directed to use. Go to Blackboard and open the data file posted under Quiz #2. Use it to answer the following questions. Place your answers to the bolded questions directly on this page.

1. Create a Pivot Table of Pay Type vs. Gender that displays counts. **What is the number of people who are female? What is the number of people who are salaried?** Create a column graph of the data. **What do you notice?**
  
2. Using the same data set as #1, create a pivot table of Pay Type vs. Gender that displays average credit card debit. **What is the average credit card debt of Salaried Men? Do you notice any relationships to the data?**
  
3. Referring to your table from #1, suppose that someone from this data set is selected at random. Answer the following questions:
  - a. **What is the probability that the person is a man?**
  
  - b. **What is the probability that the person is salaried?**
  
  - c. **What is the probability that the person is a salaried man given that they are salaried?**
  
  - d. **What is the probability that the person is a salaried man?**
  
  - e. **What is the probability that the person is a salaried man or a woman paid hourly?**

- Using the data for #4, create a scatterplot that examines the relationship between GPA (x) and Salary (y). **What is the regression line, and  $R^2$  value? Does the trend appear to be linear or non-linear? Negative or positive correlation? If the trend continued, what would you expect the salary to be if the school average GPA was 3.9 in their program? Do there appear to be any outliers?**