BUS 210,	Quiz #2,	Fall	2018
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Section		

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 heavy drinkers? What is the number of people who are heavy smokers? Create a column graph of the data. What do you notice?

378 female. ASI Salained

the # & Rowly workers by gender is about the Same
but there are many more men or Salany

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?

\$ 1539.63 The credit coul debt of Salaried men is the highest

- 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?

$$269/481 = 0.559$$

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?

(269+186)/856 = 0.532

4. Using the data for #4, create a scatterplot that examines the relationship between GPA (x) and Salary (y). What is the regression line, and \mathbb{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 acceptance rate to be if the school enrolled 2000 people in their program? Do there GPA was 39 appear to be any outliers?

Y=47,384X-51,265

R2 = 0.1047

lenear, posetrue

(there is a shore ontheir) influential

\$ 133,532.60

Yes There is a 3.7 GPA wf a salang under \$ 70,000