Name	EY
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**. You must submit the Excel file you used to perform calculations into the Quiz #2 folder in Blackboard, and submit the paper version of the quiz to the instructor to be eligible to receive full credit.

1.	The amount of tax paid in six neighborhoods is sampled. Conduct an ANOVA test to determine if
	the neighborhood one lives in affects the amount of tax paid. State the null and alternative
	hypotheses, test statistic and P-value. State the conclusion of the test. Create a comparative
	boxplot to confirm your results.

Ho: all means are the same the means are different that at least one is defferent

F = 107.366 P-value: 7.288 410 50 <<.05 regist mull

2. The data set on sheet #2 contains measurements of gender, homeownership, marital status and salary category. Construct a pivot table to compare Homeownership and Salary Category. Use the pivot table to conduct a χ^2 test for independence, state the null and alternative hypotheses, test statistic and P-value. State the conclusion of the test.

Ho: honeownership and Salary are independent Ha: homeownership and Salary are dependent

P-value: 1.47×10-54 & .05 reject null The variables are velated.

3. The data set on sheet #3 contains before and after test scores for a new training program on OSHAA guidelines. The before test was conducted as a baseline before training, and then

employees were retested after training. Conduct a two-sample t-test to determine if the training program was effective. State the null and alternative hypotheses, test statistic and P-value. State the conclusion of the test. Is the data dependent or independent?

Ho: the mean difference is 0

Ha: the mean difference is positive M8>0 (improves = iffective)

t = -8.946 p-value: 3.55×10-12 < .05 reject mill

the training is effective.

the data is dependent

Submit your completed Excel file to Blackboard, and submit your paper quiz to your instructor in class.