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**DATA ANALYTICS WITH R, EXCEL and TABLEAU**

**Session 11 – Assignment – 11.2**

#1. Use the given link below and locate the bank marketing dataset. Data Set Link

#Perform the below operations:

getwd()

setwd("D:/BIG DATA/DATA ANALYTICS WITH R, EXCEL & TABLEAU/11 LINEAR MODELS")

getwd()

bank.additional = read.csv("bank-additional.csv", sep = ";")

View(bank.additional)

#a. Is there any association between Job and default?

#we are using Chi-Square Test for checking association as both job and default are categorical variables

#hence Chi-Square Test for checking association

#so first defining the null hypothesis

#Ho: There is no association between job and default

#Ha: There is association between job and default

chisq.test(bank.additional$job ,bank.additional$default)

#now as we can see p value is nearly 0 or less which is henceforth less than 0.05

#p value<0.05 hence we will reject the null hypo and accept the alternative hypothesis

#which says that There is association between job and default.

#b. Is there any significant difference in duration of last call between people having housing loan or not?

#c. Is there any association between consumer price index and consumer?

#d. Is the employment variation rate consistent across job types?

#e. Is the employment variation rate same across education?

#f. Which group is more confident?