Lab 5 for reference

#Reading Data

df <- read.csv("C:/Users/12195/Documents/Data 151/Numerical\_data.csv")

#Cleaning Negative value

df$Member.years[df$Member.years == -1806] <- 0

#Creating initial model

m\_allnum <- lm(Score ~ Nr..reviews + Nr..hotel.reviews + Helpful.votes + Hotel.stars + Nr..rooms + Member.years + Dummy.Pool + Dummy.Gym + Dummy.Tennis + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Nr..hotel.reviews

m\_allnum <- lm(Score ~ Nr..reviews + Helpful.votes + Hotel.stars + Nr..rooms + Member.years + Dummy.Pool + Dummy.Gym + Dummy.Tennis + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Helpful.votes

m\_allnum <- lm(Score ~ Nr..reviews + Hotel.stars + Nr..rooms + Member.years + Dummy.Pool + Dummy.Gym + Dummy.Tennis + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Nr..reviews

m\_allnum <- lm(Score ~ Hotel.stars + Nr..rooms + Member.years + Dummy.Pool + Dummy.Gym + Dummy.Tennis + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Nr..rooms

m\_allnum <- lm(Score ~ Hotel.stars + Member.years + Dummy.Pool + Dummy.Gym + Dummy.Tennis + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Member.years

m\_allnum <- lm(Score ~ Hotel.stars + Dummy.Pool + Dummy.Gym + Dummy.Tennis + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Dummy.Tennis

m\_allnum <- lm(Score ~ Hotel.stars + Dummy.Pool + Dummy.Gym + Dummy.Spa + Dummy.Casino +Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Removing Dummy.Casino

m\_allnum <- lm(Score ~ Hotel.stars + Dummy.Pool + Dummy.Gym + Dummy.Spa + Dummy.Free.Internet, data = df)

summary(m\_allnum)

#Our significant model contains Hotel.Stars, Dummy.Pool, Dummy.Gym, Dummy.Spa, Dummy.Free.Internet

#Following same order, coefficients are: 0.25050, 0.99983, 0.50058, -0.34218, 0.82482

#Intercept = 2.559

#Will want to run again after figuring out dummy for country, traveler, month, and continent