install.packages("arules")

install.packages("splitstackshape")

library(arules)

library(splitstackshape)

rm(list=ls(all=TRUE))

mydata <-read.delim(file.choose(), header = FALSE)

mydata$v2<-c(seq(1:246))

mydata<-mydata[,c(2,1)]

H<-cSplit(mydata,"V1"," ","long")

write.table(H, file="forests.csv", sep=",", col.names = FALSE, row.names = FALSE)

HS<-read.csv(file="forests.csv",header =FALSE,sep=",")

trans = read.transactions(file="forests.csv", rm.duplicates= FALSE, format="single",sep=",",cols =c(1,2))

inspect(trans)

trans

support<-0.50

library(arules)

fp <- apriori(trans, parameter = list(target = "frequent itemsets", supp=support, minlen=1), control = list(verbose = FALSE))

sets\_order\_supp <- DATAFRAME(sort(fp, by="support", decreasing = F))

View(sets\_order\_supp)

maximal <-is.maximal(fp)

inspect(fp[maximal])

rules <- apriori(trans,parameter = list(sup = 0.40, conf = 0.7,target="rules"))

inspect(rules)

First I install 2 packages arules and splitstackshape. Then, I open the forest.txt file and import it row wise.

For first question, I am using apriori logic and provided data like support and confidence and viewing the made table.

For second question, I am inspecting the table by is.maximal.

For third question, I am inspecting the object rule by again using apriori.