> library(arules)

> library(arulesViz)

> data("Groceries")

> itemFrequencyPlot(Groceries,type="absolute",topN=20)

> rules<-apriori(Groceries,parameter = list(supp=0.001,conf=0.8))

options(digits = 2)

inspect(rules[1:5])

summary(rules)

rules<-sort(rules,decreasing = TRUE,by="confidence")

> inspect(rules[1:5])

rules<-apriori(Groceries,parameter = list(supp=.001,conf=0.8,maxlen=3))

inspect(rules[1:5])

subset.matrix<-is.subset(rules,rules)

> subset.matrix[lower.tri(subset.matrix,diag = T)]<-NA

redundant<-colSums(subset.matrix,na.rm =T)>=1

> rules.pruned<-rules[!redundant]

> rules<-rules.pruned

> rules<-apriori(Groceries,parameter = list(supp=0.001,conf=0.8),appearance = list(default="lhs",rhs="whole milk"),control=list(verbose=F))

> rules<-apriori(Groceries,parameter = list(supp=0.001,conf=0.15,minlen=2),appearance = list(default="rhs",lhs="whole milk"),control=list(verbose=F))

plot(rules,method="graph",shading = NA,engine='interactive')