library(arules)

library(arulesViz)

library(RColorBrewer)

data<-read.transactions('C:/Users/student/Desktop/supermarket.csv', rm.duplicates= TRUE, format="single",sep=",",header = TRUE,cols=c("City","Product line"))

str(data)

inspect(head(data))

data@itemInfo$labels

data\_rules <- apriori(data, parameter = list(supp = 0.01, conf = 0.2))

data\_rules

inspect(data\_rules[1:20])

inspect(head(sort(data\_rules, by = "confidence"), 10))

inspect(tail(sort(data\_rules, by = "confidence"), 10))

fashion\_rules <- apriori(data=data, parameter=list (supp=0.001,conf = 0.08), appearance = list (rhs="Fashion accessories"))

inspect(head(sort(fashion\_rules, by = "confidence"), 10))

fashion\_rules\_increased\_support <- apriori(data, parameter = list(support =0.02, confidence = 0.5))

inspect(head(sort(fashion\_rules\_increased\_support, by = "confidence"), 10))

itemFrequencyPlot(data,topN=20,type="absolute",col=brewer.pal(8,'Pastel2'), main="Absolute Item Frequency Plot")