library(arules)

library(arulesViz)

library(datasets)

data("Groceries")

itemFrequencyPlot(Groceries, topN=20)

rules1 <- apriori(Groceries, parameter = list(supp = 0.001, conf = 0.8), appearance = list(default = "lhs", rhs = "whole milk"))

rules1 <- sort(rules1, by="confidence", decreasing = TRUE)

inspect(rules1[1:10])

rules1 <- rules1[1:10]

plot(rules1, method = "graph", engine = "interactive")

rules2 <- apriori(Groceries, parameter = list(supp = 0.001, conf = 0.01, minlen=2, maxlen=3), appearance = list(default="rhs", lhs = "whole milk"))

rules2 <- sort(rules2, by="confidence", decreasing = TRUE)

inspect(rules2[1:10])

rules2 <- rules2[1:10]

plot(rules2, method="graph", engine = "interactive")