23/11/2021, 23:49 RStudio Cloud

```
library("arules")
library("arulesViz")
library(plyr)
head(df)
transactionData <- ddply(df, c("Transaction","date time"), function(df1)paste(df1$Item,</pre>
collapse = ","))
transactionData$Transaction <- NULL
transactionData$date time <- NULL
colnames(transactionData) <- c("items")</pre>
summary(transactionData)
dim(transactionData)
write.csv(transactionData, "market basket transactions.csv", quote = FALSE, row.names =
FALSE)
tr <- read.transactions("market basket transactions.csv", format = 'basket', sep=',')</pre>
itemFrequencyPlot(tr, topN=20, type="absolute")
association.rules <- apriori(tr, parameter = list(supp=0.001, conf=0.3, maxlen=10))
inspect(association.rules)
inspect(head(sort(association.rules, by=c("conf", "supp"))))
shorter.association.rules <- apriori(tr, parameter = list(supp=0.001, conf=0.3,
maxlen=2))
inspect(shorter.association.rules)
bread.association.rules <- apriori(tr, parameter = list(supp=0.001, conf=0.3),</pre>
appearance = list(default='lhs', rhs='Bread'))
inspect(bread.association.rules)
inspect(head(sort(bread.association.rules, by=c("conf", "supp"))))
top10Rules <- head(bread.association.rules, n=10, by="confidence")</pre>
plot(top10Rules, method="graph", engine="htmlwidget")
```