```
# Loading Libraries
library(arules)
library(arulesViz)
library(RColorBrewer)
# import dataset
data("Groceries")
# using apriori() function
rules <- apriori(Groceries,
                    parameter = list(supp = 0.01, conf = 0.2))
# using inspect() function
inspect(rules[1:10])
 Apriori
 Parameter specification:
  confidence minval smax arem aval original Support maxtime support minlen maxlen target ext
        0.2
              0.1 1 none FALSE
                                         TRUE 5 0.01
                                                             1 10 rules TRUE
 Algorithmic control:
  filter tree heap memopt load sort verbose
     0.1 TRUE TRUE FALSE TRUE 2 TRUE
 Absolute minimum support count: 98
 set item appearances ...[0 item(s)] done [0.00s].
 set transactions ... [169 item(s), 9835 transaction(s)] done [0.00s].
 sorting and recoding items ... [88 item(s)] done [0.00s].
 creating transaction tree ... done [0.00s].
 checking subsets of size 1 2 3 4 done [0.00s].
 writing ... [232 rule(s)] done [0.00s].
 creating S4 object ... done [0.00s].
 > # using inspect() function
 > inspect(rules[1:10])
      1hs
                                      support confidence coverage lift
                   => {whole milk}
                                     0.25551601 0.2555160 1.00000000 1.000000 2513
 [1] {}
 [2] {hard cheese} => {whole milk} 0.01006609 0.4107884 0.02450432 1.607682 99 [3] {butter milk} => {other vegetables} 0.01037112 0.3709091 0.02796136 1.916916 102
 [5] {ham} => {whole milk}
[6] {sliced cheese} => {whole milk}
                                      0.01148958 0.4414062 0.02602949 1.727509 113
0.01077783 0.4398340 0.02450432 1.721356 106
 [7] {oil} => {whole milk}
                                     0.01128622 0.4021739 0.02806304 1.573968 111
                  => {other vegetables} 0.01423488 0.4590164 0.03101169 2.372268 140
 [8] {onions}
                 [9]
      {onions}
 [10] {berries}
# using itemFrequencyPlot() function
arules::itemFrequencyPlot(Groceries, topN = 20,
                                col = brewer.pal(8, 'Pastel2'),
                                main = 'Relative Item Frequency Plot',
                                type = "relative",
                                vlab = "Item Frequency (Relative)")
```

