```
#Analysis of Sales Report of a clothes Manufacturing Outlet . We will find current
#Analysis of Sales Report of a cleaning factor of the control of t
#To decide the pricing for various upcoming clothes, they wish to find how Style
#Season and Material affect sales of a dress and if the style of the dress is
#more influential than its price.
                                    #*******
#Created by: SHAHROO AKHTAR
#Importing the libraries
library(dplyr)
library(readxl)
#Importing the data file from the saved location
d <- read.csv("/Users/apple/Desktop/DressAttributes.csv",
            header=T)
head(d)
#To get information about the structure of the data
str(d)
#Taking care of missing values
d[d==" "] <- NA
#removing null with NA
d[d=="null"] <- NA
# Creating a subset from the dataframe of only those features which the management
#wants to analyze i.e. Style, Season and Material
pricing <- na.omit(subset(d,select = c(2,3,6,10)))
head(pricing)
str(pricing)
#Changing the categorical data into factors
pricing <- mutate_if(pricing,is.character,as.factor)</pre>
colSums(is.na(pricing))
str(pricing)
# Importing the necessary libraries
library(arules)
library(arulesViz)
#Applying the Apriori algorithim to our data
rules <- apriori(pricing, parameter = list(supp=.01,conf=.8))
inspect(rules[1:5])
rules <- sort(rules, by = "support", decreasing = T)
inspect(rules[1:5])
rules <- sort(rules, by = "lift", decreasing = T)
inspect(rules[1:5])
#Removing the duplicate rules
redundant rules <- is.redundant(rules)
redundant rules
summary(redundant_rules)
rules <- rules[!redundant_rules]</pre>
rules
inspect(rules)
```