Supermarket R Markdown

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

library("ggplot2")

## Warning: replacing previous import by 'rlang:::=' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::.data' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::as\_label' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::as\_name' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::dots\_n' when loading 'dplyr'

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## Warning: replacing previous import by 'rlang::enquos' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::expr' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::sym' when loading 'dplyr'

## Warning: replacing previous import by 'rlang::syms' when loading 'dplyr'

library('dplyr')

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library('tinytex')  
  
#Dataset for supermarket inventory  
data<-read.csv("/home/khalsa/Desktop/Supermarket/Dataset.csv")  
#smallData<-read.csv("/home/khalsa/Desktop/temporary.csv")  
  
#Cleansing data   
cleanedData <- data %>% filter((!is.na(Quantity) & Quantity != "" & Quantity>0) &   
(!is.na(UnitPrice) & UnitPrice != "" & UnitPrice>0) & (!is.na(InvoiceNo) & InvoiceNo != "")  
& (!is.na(StockCode) & StockCode != ""))  
  
#finding sales by quantity\* unitprice  
salesData <- cleanedData %>% mutate(Sales = Quantity \* UnitPrice)  
  
#group data by 'StockCode'  
data2 <- cleanedData %>% group\_by(StockCode) %>% summarise(Quantity = sum(Quantity))  
  
H <- data2 %>% pull(Quantity)  
M <- data2 %>% pull(StockCode)  
# Give the chart file a name  
png(file = "barchat\_total\_sale.png")  
  
# Plot the bar chart   
barplot(H,names.arg=M,xlab="Stockcode",ylab="Quantity",col="blue",  
 main="Sale of a product chart",border="red")  
  
#group data by 'Country'  
data3 <- salesData %>% group\_by(Country) %>% summarise(Sales = sum(Sales))   
data3 <- salesData %>% group\_by(Country) %>% filter(Country!="United Kingdom") %>% summarise(Sales = sum(Sales))  
  
H1 <- data3 %>% pull(Sales)  
M1 <- data3 %>% pull(Country)  
# Give the chart file a name  
png(file = "country\_vs\_sale.png")  
  
# Plot the bar chart   
barplot(H1,names.arg=M1,xlab="Country",ylab="Sales",col="blue",  
 main="country wise sale",border="red")  
  
#group data by 'CustomerID'  
data4 <- salesData %>% group\_by(CustomerID) %>% summarise(Sales = sum(Sales)) %>% filter(Sales<7000)  
  
H2 <- data4 %>% pull(Sales)  
M2 <- data4 %>% pull(CustomerID)  
# Give the chart file a name  
png(file = "Customer\_wise\_sale.png")  
  
# Plot the bar chart   
barplot(H2,names.arg=M2,xlab="CustomerID",ylab="Sales",col="red",  
 main="CustomerID vs Sale",border="blue")  
  
  
#group data by 'Country'  
data5<- cleanedData %>% group\_by(Country, StockCode) %>% summarise(NewQuantity = sum(Quantity))   
png(file = "testLinechart.png")  
ggplot(data=data5, aes(x=StockCode, y=NewQuantity, group=Country)) +geom\_line(aes(linetype=Country))+ geom\_point()  
  
  
#correlation  
f<-salesData %>% group\_by(StockCode) %>%   
 summarise(cor = cor(UnitPrice, Sales, use="everything", method="pearson"))

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#Predictive Analysis: Multiple Linear Regression  
model<-lm(formula = Sales~Quantity+UnitPrice, data = salesData)  
a <- coef(model)[1]  
print(a)

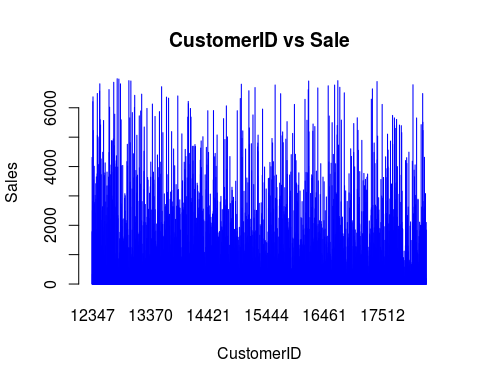
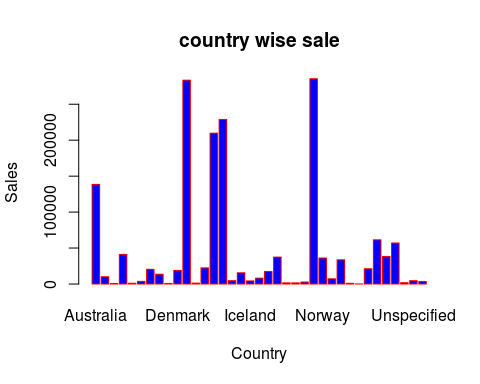
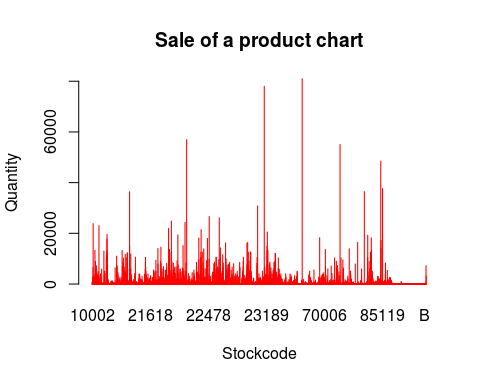
## (Intercept)   
## -0.6580384

XQuantity <- coef(model)[2]  
XUnitPrice <- coef(model)[3]  
  
#MULTIPLE LINEAR REGESSION EQUATION FORMED  
#y=a+XQuantity\*x1+XUnitPrice\*x2 where x1 and x2 are arbitrary values  
  
  
# Save the file  
dev.off()

## png   
## 2

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.