```
R version 4.0.3 (2020-10-10) -- "Bunny-Wunnies Freak Out"
Copyright (C) 2020 The R Foundation for Statistical Computing
Platform: x86 64-apple-darwin17.0 (64-bit)
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
 Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[R.app GUI 1.73 (7892) x86_64-apple-darwin17.0]
[History restored from /Users/mia/.Rapp.history]
> library(data.table)
data.table 1.13.6 using 1 threads (see ?getDTthreads). Latest news:
r-datatable.com
*****
This installation of data.table has not detected OpenMP support. It
should still work but in single-threaded mode.
This is a Mac. Please read https://mac.r-project.org/openmp/. Please
engage with Apple and ask them for support. Check r-datatable.com
for updates, and our Mac instructions here: https://github.com/
Rdatatable/data.table/wiki/Installation. After several years of many
reports of installation problems on Mac, it's time to gingerly point
out that there have been no similar problems on Windows or Linux.
*****
> library(qqplot2)
Warning message:
In file(con, "r") :
  cannot open file '/var/db/timezone/zoneinfo/+VERSION': No such
file or directory
> library(tidyr)
> install.packages("data.table", repos='http://cran.us.r-
project.org')
trying URL 'http://cran.us.r-project.org/bin/macosx/contrib/4.0/
data.table_1.13.6.tgz'
Content type 'application/x-gzip' length 2335683 bytes (2.2 MB)
_____
downloaded 2.2 MB
```

The downloaded binary packages are in /var/folders/zp/6cgvvfm974d2t5v6c3hygnv40000gp/T// RtmpuqsbKQ/downloaded packages

```
install.packages("gg[]", repos='http://cran.us.r-project.org')
> install.packages("ggplot2", repos='http://cran.us.r-project.org')
trying URL 'http://cran.us.r-project.org/bin/macosx/contrib/4.0/
ggplot2 3.3.3.tgz'
Content type 'application/x-gzip' length 4068756 bytes (3.9 MB)
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downloaded 3.9 MB
The downloaded binary packages are in
        /var/folders/zp/6cgvvfm974d2t5v6c3hygnv40000gp/T//
RtmpugsbKQ/downloaded_packages
> install.packages("tidyr", repos='http://cran.us.r-project.org')
trying URL 'http://cran.us.r-project.org/bin/macosx/contrib/4.0/
tidyr_1.1.2.tgz'
Content type 'application/x-gzip' length 936440 bytes (914 KB)
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The downloaded binary packages are in
        /var/folders/zp/6cgvvfm974d2t5v6c3hygnv40000gp/T//
RtmpugsbKQ/downloaded packages
> #### Point the filePath to where you have downloaded the datasets
to
> #### assign the data files to data.tables
2021-02-09 21:17:00.673 R[40960:12497545] [QL] Can't get plugin
bundle info at file:///Applications/GarageBand.app/Contents/Library/
QuickLook/LogicXQLGenerator.glgenerator/
> data <- as.data.table(read.csv("QVI_data.csv", header = TRUE))</pre>
> theme set(theme bw())
> theme update(plot.title = element text(hjust = 0.5))
> data
                             DATE STORE NBR TXN ID PROD NBR
        LYLTY CARD NBR
     1:
                  1000 2018-10-17
                                         1
                                                 1
                                                          5
                                                 2
                                                         58
     2:
                  1002 2018-09-16
                                         1
                  1003 2019-03-07
                                                 3
                                          1
                                                         52
     3:
     4:
                  1003 2019-03-08
                                         1
                                                 4
                                                        106
                                                 5
     5:
                  1004 2018-11-02
                                         1
                                                         96
               2370701 2018-12-08
                                                         24
264830:
                                        88 240378
264831:
               2370751 2018-10-01
                                        88 240394
                                                         60
               2370961 2018-10-24
                                        88 240480
                                                         70
264832:
               2370961 2018-10-27
                                        88 240481
                                                         65
264833:
                                         88 241815
               2373711 2018-12-14
264834:
                                                         16
                                       PROD_NAME PROD_QTY TOT_SALES
     1:
         Natural Chip
                              Compny SeaSalt175g
                                                       2
                                                                6.0
          Red Rock Deli Chikn&Garlic Aioli 150g
     2:
                                                       1
                                                                2.7
                                                                3.6
                                                       1
     3:
          Grain Waves Sour
                             Cream&Chives 210G
          Natural ChipCo
                             Hony Soy Chckn175g
                                                       1
                                                                3.0
     4:
     5:
                  WW Original Stacked Chips 160g
                                                       1
                                                                1.9
```

```
Grain Waves
                                                         2
                                                                  7.2
264830:
                                Sweet Chilli 210g
            Kettle Tortilla ChpsFeta&Garlic 150g
                                                         2
                                                                  9.2
264831:
264832: Tyrrells Crisps
                             Lightly Salted 165g
                                                         2
                                                                  8.4
264833: Old El Paso Salsa
                            Dip Chnky Tom Ht300g
                                                         2
                                                                 10.2
264834: Smiths Crinkle Chips Salt & Vinegar 330g
                                                         2
                                                                 11.4
        PACK_SIZE
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                                          LIFESTAGE PREMIUM CUSTOMER
                     NATURAL YOUNG SINGLES/COUPLES
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              150
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                                                          Mainstream
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                                     YOUNG FAMILIES
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                                     YOUNG FAMILIES
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264830:
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                     GRNWVES
                                     YOUNG FAMILIES
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264831:
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                    TYRRELLS
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                      SMITHS YOUNG SINGLES/COUPLES
                                                          Mainstream
> #Select control stores
> #### Calculate these measures over time for each store
> Add a new month ID column in the data with the format yyyymm
Error: unexpected symbol in "Add a"
> ####Add a new month ID column in the data with the format yyyymm
> data[, N. , YEARMONTH:= ]
Error: unexpected ']' in "data[, N. , YEARMONTH:= ]"
> library(lubridate)
Attaching package: 'lubridate'
The following objects are masked from 'package:data.table':
    hour, isoweek, mday, minute, month, quarter, second, wday, week,
yday,
    year
The following objects are masked from 'package:base':
    date, intersect, setdiff, union
> monthYear <- format(as.Date(date$DATE), "%Y%m")</pre>
Error in date$DATE: object of type 'closure' is not subsettable
> monthYear <- format(as.Date(data$DATE),"%Y%m")</pre>
> data[, YEARMONTH := monthYear]
> data$YEARMONTH <- as.numeric(as.character(data$YEARMONTH))</pre>
> ### Define measure calculations to use during analysis
> ####For each store and month calculate total sales, number of
customers, transactions per customer, chips per customer and the
average price per unit.
> measureOverTime <- data %>% group by(STORE NBR,YEARMONTH) %>%
summarise(totSales = sum(TOT_SALES),nCustomers =
uniqueN(LYLTY_CARD_NBR),nTxnPerCust = uniqueN(TXN_ID)/
uniqueN(LYLTY_CARD_NBR), nChipsPerTxn = sum(PROD_QTY)/
uniqueN(TXN_ID), avgPricePerUnit = (sum(TOT_SALES)/sum(PROD_QTY)))
Error in summarise(., totSales = sum(TOT SALES), nCustomers =
uniqueN(LYLTY CARD NBR),
```

```
could not find function "summarise"
> measureOverTime <- data %>% group by(STORE NBR,YEARMONTH) %>%
summarise(totSales = sum(TOT SALES),nCustomers =
uniqueN(LYLTY CARD NBR),nTxnPerCust = uniqueN(TXN ID)/
uniqueN(LYLTY_CARD_NBR), nChipsPerTxn = sum(PROD_QTY)/
uniqueN(TXN_ID), avgPricePerUnit = (sum(TOT_SALES)/sum(PROD_QTY)))
Error in summarise(., totSales = sum(TOT_SALES), nCustomers =
uniqueN(LYLTY_CARD_NBR),
  could not find function "summarise"
> install.packages("dplyer", repos='http://cran.us.r-project.org')
Warning message:
package 'dplyer' is not available for this version of R
A version of this package for your version of R might be available
elsewhere.
see the ideas at
https://cran.r-project.org/doc/manuals/r-patched/R-
admin.html#Installing-packages
> install.packages("dplyr", repos='http://cran.us.r-project.org')
trying URL 'http://cran.us.r-project.org/bin/macosx/contrib/4.0/
dplyr 1.0.4.tgz'
Content type 'application/x-gzip' length 1250919 bytes (1.2 MB)
downloaded 1.2 MB
The downloaded binary packages are in
        /var/folders/zp/6cqvvfm974d2t5v6c3hygnv40000gp/T//
RtmpugsbKQ/downloaded_packages
> library(dplyr)
Attaching package: 'dplyr'
The following objects are masked from 'package:data.table':
    between, first, last
The following objects are masked from 'package:stats':
    filter, lag
The following objects are masked from 'package:base':
    intersect, setdiff, setequal, union
> measureOverTime <- data %>% group_by(STORE_NBR,YEARMONTH) %>%
summarise(totSales = sum(TOT_SALES),nCustomers =
uniqueN(LYLTY_CARD_NBR),nTxnPerCust = uniqueN(TXN_ID)/
uniqueN(LYLTY CARD NBR), nChipsPerTxn = sum(PROD QTY)/
uniqueN(TXN ID), avgPricePerUnit = (sum(TOT SALES)/sum(PROD QTY)))
`summarise()` has grouped output by 'STORE_NBR'. You can override
```

```
using the `.groups` argument.
> ### Filter to the pretrial period and stores with full observation
> storesWithFullObs <-
as.data.table(table(measureOverTime$STORE NBR))
> storesWithFullObs <- storesWithFullObs %>% filter(N==12)
Error in filter(., N == 12) : object 'storesWithFullObs' not found
> storesWithFullObs <-</pre>
as.data.table(table(measureOverTime$STORE NBR)
+ storesWithFullObs <- storesWithFullObs %>% filter(N==12)
Error: unexpected symbol in:
"storesWithFullObs <- as.data.table(table(measureOverTime$STORE_NBR)</pre>
storesWithFullObs"
> storesWithFullObs <-
as.data.table(table(measureOverTime$STORE_NBR)
+ h
Error: unexpected symbol in:
h"
> storesWithFullObs <-
as.data.table(table(measureOverTime$STORE NBR))
> storesWithFullObs <- storesWithFullObs %>% filter(N==12)
> storesWithFullObs<-setNames(storesWithFullObs,c("STORE NBR","N"))</pre>
> preTrialMeasures <- measureOverTime %>% filter(YEARMONTH <</pre>
201902,STORE NBR %in% storesWithFullObs$STORE NBR)
> #######Now we need to work out a way of ranking how similar
each potential control store is to the trial store. We can calculate
how correlated the performance of each store is to the trial store.
> #### Create a function to calculate correlation for a measure,
looping through each control store.
> #FOR SALES
> trialStore_sales <- preTrialMeasures %>% filter(STORE_NBR ==77)
> trialStore_sales <- trialStore_sales %>%
select(STORE_NBR, YEARMONTH, totSales, nCustomers)
> calCorr <- function(preTrialMeasures, trialStore_sales,</pre>
trialStoreN){
    calTable = data.table(Store1 = numeric(), Store2 = numeric(),
corr measure = numeric())
+ stN <- preTrialMeasures %>% select(STORE_NBR)
+ for(i in stN$STORE_NBR){
      contSt <- preTrialMeasures %>% filter(STORE_NBR==i)
      contSt <- contSt %>% select(totSales)
+ calMeasure = data.table("Store1" = trialStoreN, "Store2" = i,
"corr_measure" = cor(trialStore_sales$totSales,contSt$totSales))
      calTable <- rbind(calTable, calMeasure) }</pre>
+
    return(calTable)
+ }
> ####FOR CUSTOMERS
```

```
> calculateCorrelation <-</pre>
function(preTrialMeasures, trialStore_sales, trialStoreN) {
    calTable = data.table(Store1 = numeric(), Store2 = numeric(),
corr measure = numeric())
    stN <- preTrialMeasures %>% select(STORE_NBR)
+
+
    for(i in stN$STORE_NBR){
      contSt <- preTrialMeasures %>% filter(STORE_NBR==i)
+
      contSt <- contSt %>% select(nCustomers)
      calMeasure = data.table("Store1" = trialStoreN, "Store2" = i,
"corr_measure" = cor(trialStore_sales$nCustomers,contSt$nCustomers))
+
      calTable <- rbind(calTable, calMeasure) }</pre>
    return(calTable)
+
+ }
> #### Create a function to calculate a standardised magnitude
distance for a measure, looping through each control store
> ##Sales
> calculateMagnitudeDistance1 <-</pre>
function(preTrialMeasures, trialStore_sales, trial_storeN) {
    calTable = data.table(Store1 = numeric(), Store2 = numeric(),
YEARMONTH = numeric(), mag_measure = numeric())
    stN <- preTrialMeasures %>% select(STORE_NBR)
    for(i in stN$STORE_NBR){
+
      contSt <- preTrialMeasures %>% filter(STORE NBR==i)
+
      contSt <- contSt %>% select(totSales)
+
      calMeasure = data.table("Store1" = trial_storeN, "Store2" = i,
"YEARMONTH" = preTrialMeasures$YEARMONTH ,"mag_measure" =
abs(trialStore_sales$totSales - contSt$totSales))
      calTable <- rbind(calTable,calMeasure)</pre>
+
+
      calTable <- unique(calTable)</pre>
+
     return(calTable)
+
+ }
> ####Standardize
> standMag1 <- function(magnitude_nSales) {</pre>
    minMaxDist <- magnitude_nSales[, .(minDist =</pre>
min( magnitude_nSales$mag_measure), maxDist =
max(magnitude_nSales$mag_measure)), by = c("Store1", "YEARMONTH")]
    distTable <- merge(magnitude_nSales, minMaxDist, by =</pre>
c("Store1", "YEARMONTH"))
    distTable[, magnitudeMeasure := 1 - (mag_measure - minDist)/
(maxDist - minDist)]
    finalDistTable <- distTable[, .(magN_measure =</pre>
mean(magnitudeMeasure)), by = .(Store1, Store2)]
    return(finalDistTable)
+ }
> ####Customers
```

```
> calculateMagnitudeDistance2 <-</pre>
function(preTrialMeasures, trialStore_sales, trial_storeN) {
    calTable = data.table(Store1 = numeric(), Store2 = numeric(),
YEARMONTH = numeric(), mag measure = numeric())
    stN <- preTrialMeasures %>% select(STORE_NBR)
    for(i in stN$STORE NBR){
+
+
      contSt <- preTrialMeasures %>% filter(STORE NBR==i)
      contSt <- contSt %>% select(nCustomers)
      calMeasure = data.table("Store1" = trial_storeN, "Store2" = i,
"YEARMONTH" = preTrialMeasures$YEARMONTH , "mag_measure" =
abs(trialStore_sales$nCustomers - contSt$nCustomers))
      calTable <- rbind(calTable,calMeasure)</pre>
+
+
      calTable <- unique(calTable)</pre>
+
    }
     return(calTable)
+
+ }
> ##Standardize
> standMag2 <- function(magnitude_nSales) {</pre>
      minMaxDist <- magnitude_nCustomers[, .(minDist =</pre>
min( magnitude_nCustomers$mag_measure), maxDist =
max(magnitude nCustomers\$mag measure)), by = c("Store1",
"YEARMONTH")]
      distTable <- merge(magnitude nCustomers, minMaxDist, by =
c("Store1", "YEARMONTH"))
      distTable[, magnitudeMeasure := 1 - (mag_measure - minDist)/
(maxDist - minDist)]
      finalDistTable <- distTable[, .(magN_measure =</pre>
mean(magnitudeMeasure)), by = .(Store1, Store2)]
      return(finalDistTable)
+ +
+ + }
Error: unexpected '}' in:
     return(finalDistTable)
+ }"
> standMag2 <- function(magnitude nCustomers) {</pre>
    minMaxDist <- magnitude nCustomers[, .(minDist =</pre>
min( magnitude_nCustomers$mag_measure), maxDist =
max(magnitude_nCustomers$mag_measure)), by = c("Store1",
"YEARMONTH")]
    distTable <- merge(magnitude_nCustomers, minMaxDist, by =</pre>
c("Store1", "YEARMONTH"))
    distTable[, magnitudeMeasure := 1 - (mag_measure - minDist)/
(maxDist - minDist)]
    finalDistTable <- distTable[, .(magN_measure =</pre>
mean(magnitudeMeasure)), by = .(Store1, Store2)]
   return(finalDistTable)
+
+ }
> #### Use the function you created to calculate correlations
against store 77 using total sales and number of customers.
> trial_store <- 77</pre>
> corr_nSales <- calculateCorrelation(preTrialMeasures,</pre>
trialStore sales, trialStoreN)
Adding missing grouping variables: `STORE_NBR`
```

```
Error in data.table(Store1 = trialStoreN, Store2 = i, corr measure =
cor(trialStore_sales$nCustomers,
  object 'trialStoreN' not found
> corr nSales <-
calCorr(preTrialMeasures, trialStore sales, trial store)
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> corr_nSales <- unique(corr_nSales)</pre>
> corr_nCustomers <- calculateCorrelation(preTrialMeasures,</pre>
trialStore sales, trial store )
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> corr nCustomers <- unique(corr nCustomers)</pre>
> #### Use the functions for calculating magnitude
> magnitude nSales <- calculateMagnitudeDistance(preTrialMeasures,</pre>
quote(totSales),
+ trial_store)
Error in calculateMagnitudeDistance(preTrialMeasures,
quote(totSales).
  could not find function "calculateMagnitudeDistance"
> magnitude_nSales <- calculateMagnitudeDistance1(preTrialMeasures,</pre>
trialStore_sales, trial_store)
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> magnitude_nSales <- standMag1(magnitude_nSales)</pre>
> magnitude_nCustomers <-</pre>
calculateMagnitudeDistance2(preTrialMeasures, trialStore_sales,
trial store)
Error: unexpected input in "magnitude nCustomers <-"</pre>
> magnitude nCustomers <-</pre>
calculateMagnitudeDistance2(preTrialMeasures, trialStore_sales,
trial store)
Error: unexpected input in "magnitude_nCustomers <-"</pre>
> magnitude_nCustomers <- standMag2(magnitude_nCustomers)</pre>
Error in standMag2(magnitude_nCustomers) :
  object 'magnitude_nCustomers' not found
> magnitude_nCustomers
Error: object 'magnitude_nCustomers' not found
> corr_weight <- 0.5</pre>
> score nSales <- merge(corr nSales,magnitude nSales, by =</pre>
c("Store1", "Store2"))
> score nSales <- score nSales %>% mutate(scoreNSales =
(score_nSales$corr_measure * corr_weight)+(score_nSales$magN_measure)
* (1 - corr_weight)))
```

```
> score_nCustomers <- merge(corr_nCustomers,magnitude_nCustomers, by
= c("Store1", "Store2"))
Error in is.data.table(y) : object 'magnitude_nCustomers' not found
> score_nCustomers <- score_nCustomers %>% mutate(scoreNCust =
    (score_nCustomers$corr_measure * corr_weight)+
    (score_nCustomers$magN_measure * (1 - corr_weight)))
Error in mutate(., scoreNCust = (score_nCustomers$corr_measure *
    corr_weight) + :
    object 'score_nCustomers' not found
>
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