```r
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5     v purrr   0.3.4
## v tibble  3.1.6     v dplyr   1.0.7
## v tidyr   1.1.4     v stringr 1.4.0
## v readr   2.1.1     v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

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

```r
setwd("fitbitdat")
dayact = read_csv("dailyActivity_merged.csv")
```

```
## Rows: 940 Columns: 15

## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr  (1): ActivityDate
## dbl (14): Id, TotalSteps, TotalDistance, TrackerDistance, LoggedActivitiesDi...

##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```r
daycal = read_csv("dailyCalories_merged.csv")
```

```
## Rows: 940 Columns: 3

## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (1): ActivityDay
## dbl (2): Id, Calories

##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
dayint = read_csv("dailyIntensities_merged.csv")
```

```
## Rows: 940 Columns: 10
```

```
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (1): ActivityDay
## dbl (9): Id, SedentaryMinutes, LightlyActiveMinutes, FairlyActiveMinutes, Ve...
```

```
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
daystp = read_csv("dailySteps_merged.csv")
```

```
## Rows: 940 Columns: 3
```

```
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (1): ActivityDay
## dbl (2): Id, StepTotal
```

```
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
daytotal = cbind(dayact,daycal,dayint,daystp)
```

```
daytotalx = daytotal[!duplicated(as.list(daytotal))]
```

```
names(daytotalx)
```

```
##  [1] "Id"                       "ActivityDate"
##  [3] "TotalSteps"               "TotalDistance"
##  [5] "TrackerDistance"          "LoggedActivitiesDistance"
##  [7] "VeryActiveDistance"       "ModeratelyActiveDistance"
##  [9] "LightActiveDistance"      "SedentaryActiveDistance"
## [11] "VeryActiveMinutes"        "FairlyActiveMinutes"
## [13] "LightlyActiveMinutes"     "SedentaryMinutes"
## [15] "Calories"
```

```
print(cor(daytotalx$VeryActiveDistance,daytotalx$Calories))
```

```
## [1] 0.4919586
```

```
print(cor(daytotalx$ModeratelyActiveDistance,daytotalx$Calories))
```

```
## [1] 0.2167899
```

```
print(cor(daytotalx$LightActiveDistance,daytotalx$Calories))
```

```
## [1] 0.4669168
```

```
print(cor(daytotalx$SedentaryActiveDistance,daytotalx$Calories))
```

```
## [1] 0.04365187
```

```
print(cor(daytotalx$VeryActiveMinutes,daytotalx$Calories))
```

```
## [1] 0.6158383
```

```
print(cor(daytotalx$FairlyActiveMinutes,daytotalx$Calories))
```

```
## [1] 0.2976235
```

```
print(cor(daytotalx$LightlyActiveMinutes,daytotalx$Calories))
```

```
## [1] 0.2867175
```

```
print(cor(daytotalx$SedentaryMinutes,daytotalx$Calories))
```

```
## [1] -0.106973
```