

Bellabeat Case Study

Kane M

2023-02-03

##Setting Up My Environment Notes: Setting up my environment by loading the 'tidyverse', 'lubridate', 'here', 'janitor', and 'skimr' packages.

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.4.0      v purrr   1.0.1
## v tibble  3.1.8      v dplyr  1.0.10
## v tidyr   1.2.1      v stringr 1.5.0
## v readr   2.1.3      v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(lubridate)
```

```
## Loading required package: timechange
##
## Attaching package: 'lubridate'
##
## The following objects are masked from 'package:base':
##
##   date, intersect, setdiff, union
```

```
library(here)
```

```
## here() starts at /cloud/project
```

```
library(skimr)
library(janitor)
```

```
##
## Attaching package: 'janitor'
##
## The following objects are masked from 'package:stats':
##
##   chisq.test, fisher.test
```

```
##Importing the Datasets
```

```
daily_activity <- read.csv("Bellabeat Project/dailyActivity_merged.csv")
daily_sleep <- read.csv("Bellabeat Project/sleepDay_merged.csv")
weight_log <- read.csv("Bellabeat Project/weightLogInfo_merged.csv")
```

```
###Double Checking Datasets
```

```
head(daily_activity)
```

```
##           Id ActivityDate TotalSteps TotalDistance TrackerDistance
## 1 1503960366 4/12/2016      13162          8.50          8.50
## 2 1503960366 4/13/2016      10735          6.97          6.97
## 3 1503960366 4/14/2016      10460          6.74          6.74
## 4 1503960366 4/15/2016       9762          6.28          6.28
## 5 1503960366 4/16/2016      12669          8.16          8.16
## 6 1503960366 4/17/2016       9705          6.48          6.48
##   LoggedActivitiesDistance VeryActiveDistance ModeratelyActiveDistance
## 1                      0              1.88                0.55
## 2                      0              1.57                0.69
## 3                      0              2.44                0.40
## 4                      0              2.14                1.26
## 5                      0              2.71                0.41
## 6                      0              3.19                0.78
##   LightActiveDistance SedentaryActiveDistance VeryActiveMinutes
## 1                6.06                  0              25
## 2                4.71                  0              21
## 3                3.91                  0              30
## 4                2.83                  0              29
## 5                5.04                  0              36
## 6                2.51                  0              38
##   FairlyActiveMinutes LightlyActiveMinutes SedentaryMinutes Calories
## 1                 13                328              728      1985
## 2                 19                217              776      1797
## 3                 11                181             1218      1776
## 4                 34                209              726      1745
## 5                 10                221              773      1863
## 6                 20                164              539      1728
```

```
colnames(daily_activity)
```

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

```
head(daily_sleep)
```

```
##           Id           SleepDay TotalSleepRecords TotalMinutesAsleep
## 1 1503960366 4/12/2016 12:00:00 AM              1              327
## 2 1503960366 4/13/2016 12:00:00 AM              2              384
## 3 1503960366 4/15/2016 12:00:00 AM              1              412
## 4 1503960366 4/16/2016 12:00:00 AM              2              340
## 5 1503960366 4/17/2016 12:00:00 AM              1              700
## 6 1503960366 4/19/2016 12:00:00 AM              1              304
##   TotalTimeInBed
## 1              346
## 2              407
## 3              442
```

```
## 4          367
## 5          712
## 6          320
```

```
colnames(daily_sleep)
```

```
## [1] "Id"          "SleepDay"      "TotalSleepRecords"
## [4] "TotalMinutesAsleep" "TotalTimeInBed"
```

```
head(weight_log)
```

```
##           Id           Date WeightKg WeightPounds Fat   BMI
## 1 1503960366 5/2/2016 11:59:59 PM    52.6    115.9631 22 22.65
## 2 1503960366 5/3/2016 11:59:59 PM    52.6    115.9631 NA 22.65
## 3 1927972279 4/13/2016 1:08:52 AM   133.5    294.3171 NA 47.54
## 4 2873212765 4/21/2016 11:59:59 PM    56.7    125.0021 NA 21.45
## 5 2873212765 5/12/2016 11:59:59 PM    57.3    126.3249 NA 21.69
## 6 4319703577 4/17/2016 11:59:59 PM    72.4    159.6147 25 27.45
##   IsManualReport      LogId
## 1             True 1.462234e+12
## 2             True 1.462320e+12
## 3             False 1.460510e+12
## 4             True 1.461283e+12
## 5             True 1.463098e+12
## 6             True 1.460938e+12
```

```
colnames(weight_log)
```

```
## [1] "Id"          "Date"          "WeightKg"      "WeightPounds"
## [5] "Fat"         "BMI"           "IsManualReport" "LogId"
```