Cyclistic_DA_Documentation

Anand

14/06/2021

Setting up enviornment

```
library(tidyverse) #helps wrangle data
## -- Attaching packages ----- tidyverse 1.3.1 --
## v ggplot2 3.3.3 v purrr 0.3.4
## v tibble 3.1.2 v dplyr 1.0.6
## v tidyr 1.1.3 v stringr 1.4.0
## v readr 1.4.0 v forcats 0.5.1
## -- Conflicts -----
                                      ----- tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(lubridate) #helps wrangle date attributes
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
      date, intersect, setdiff, union
library(ggplot2) #helps visualize data
```

Binding monthly data into 1 variable

```
all_trips <- bind_rows(m6_20, m7_20, m8_20, m9_20, m10_20, m11_20, m12_20, m1_21, m2_21, m3_2 1, m4_21, m5_21)
```

Finding specific Date day and duration of ride

```
all_trips$date <- as.Date(all_trips$started_at) #The default format is yyyy-mm-dd
all_trips$month <- format(as.Date(all_trips$date), "%m")
all_trips$day <- format(as.Date(all_trips$date), "%d")
all_trips$year <- format(as.Date(all_trips$date), "%Y")
all_trips$day_of_week <- format(as.Date(all_trips$date), "%A")
all_trips$ride_length <- difftime(all_trips$ended_at,all_trips$started_at)</pre>
```

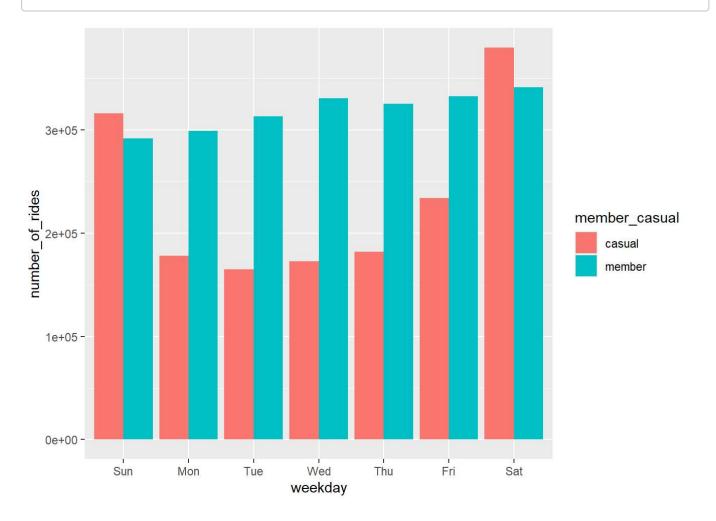
Saving to new variable as there is elimination process to avoid unwanted data

```
all_trips_v2 <- all_trips[!(all_trips$start_station_name == "HQ QR" | all_trips$ride_length<0
),]
all_trips_v2 = filter(all_trips_v2, member_casual != "NA")
all_trips_v2$ride_length <- as.numeric(as.character(all_trips_v2$ride_length))</pre>
```

Visualisation

by number of rides

`summarise()` has grouped output by 'member_casual'. You can override using the `.groups`
argument.



Visulaisation 2

by time duration

`summarise()` has grouped output by 'member_casual'. You can override using the `.groups`
argument.

