referees-cpmr

Charles Adedotun

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```
## Installing package into '/Users/runner/work/_temp/Library'
## (as 'lib' is unspecified)
##
## The downloaded binary packages are in
## /var/folders/24/8k48j16d249_n_qfxws16xvm0000gn/T//RtmpRaUSfu/downloaded_packages
## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.3.6 v purrr 0.3.5
## v tibble 3.1.8 v dplyr 1.0.10
## v tidyr 1.2.1 v stringr 1.4.1
## 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()
raw_data <- read.csv("../scraped-data/referees.csv")</pre>
raw_data <- as_tibble(raw_data)</pre>
head(raw_data)
## # A tibble: 6 x 4
## Referee
                       Matches Red.cards Yellow.cards
   <chr>
                        <int> <int> <int>
                       11
## 1 " Michael Oliver "
                                 1
                                                 32
## 2 " Anthony Taylor "
                           11
                                     5
                                                  38
                        10
                                   2
## 3 " Paul Tierney "
                                                  41
                          9
## 4 " Simon Hooper "
                                     0
                                                  26
## 5 " Robert Jones "
                           8
                                      1
                                                  28
## 6 " Andy Madley "
                           8
raw_columns <- raw_data %>% select(Referee, Matches, Yellow.cards)
head(raw_columns)
## # A tibble: 6 x 3
## Referee
                      Matches Yellow.cards
    <chr>
                        <int> <int>
## 1 " Michael Oliver " 11 ## 2 " Anthony Taylor " 11
                                        38
## 3 " Paul Tierney "
                           10
                                        41
                           9
## 4 " Simon Hooper "
                                        26
## 5 " Robert Jones "
                           8
                                        28
                           8
## 6 " Andy Madley "
                                        24
```

```
new_table <- raw_columns %>% mutate(yellow_card_ratio = Yellow.cards / Matches)
new_table <- new_table[order(-new_table$yellow_card_ratio),]
head(new_table)</pre>
```

```
## # A tibble: 6 x 4
## Referee
                          Matches Yellow.cards yellow_card_ratio
##
   <chr>
                            <int>
                                        <int>
                                                          <dbl>
## 1 " Robert Madley "
                               1
                                            6
                                                           6
## 2 " Michael Salisbury "
                               6
                                           31
                                                           5.17
## 3 " Craig Pawson "
                               7
                                           31
                                                           4.43
## 4 " Peter Bankes "
                                                           4.33
                               6
                                           26
## 5 " Paul Tierney "
                              10
                                                           4.1
                                           41
## 6 " John Brooks "
                              6
                                           24
                                                           4
```

data <- new_table %>% select(Referee, yellow_card_ratio)
head(data)

```
## # A tibble: 6 x 2
## Referee
                          yellow_card_ratio
                                      <dbl>
##
   <chr>
## 1 " Robert Madley "
## 2 " Michael Salisbury "
                                       5.17
## 3 " Craig Pawson "
                                       4.43
## 4 " Peter Bankes "
                                       4.33
## 5 " Paul Tierney "
                                       4.1
## 6 " John Brooks "
```

write.csv(data, "../cleaned-data/referees-cpmr.csv", row.names = FALSE)