referees-cpmr

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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//RtmpMcZ9GY/downloaded_packages
## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.3.6 v purrr 0.3.4
## 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>
                        7 0
7 4
6 2
5 2
## 1 " Michael Oliver "
                                                 23
## 2 " Anthony Taylor "
                                                 23
## 3 " Paul Tierney "
                                                 25
## 4 " Stuart Attwell "
                                                 18
## 5 " Simon Hooper "
                          5
                                      0
                                                 15
## 6 " Robert Jones "
                          5
raw_columns <- raw_data %>% select(Referee, Matches, Yellow.cards)
head(raw_columns)
## # A tibble: 6 x 3
## Referee
                      Matches Yellow.cards
##
    <chr>
                       <int> <int>
23
## 2 " Anthony Taylor "
                                       23
## 3 " Paul Tierney "
                           6
                                       25
                         5
## 4 " Stuart Attwell "
                                       18
## 5 " Simon Hooper "
                                       15
## 6 " Robert Jones "
                          5
                                       22
```

```
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 " John Brooks "
                                3
                                            16
                                                            5.33
## 2 " Peter Bankes "
                                                            5.25
                                4
                                            21
## 3 " Michael Salisbury "
                                3
                                            15
                                                            5
## 4 " Chris Kavanagh "
                                                            5
                                1
                                             5
## 5 " Graham Scott "
                                             5
                                                            5
                                1
## 6 " Craig Pawson "
                                            23
                                                            4.6
```

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

```
## # A tibble: 6 x 2
## Referee
                          yellow_card_ratio
##
   <chr>
                                      <dbl>
## 1 " John Brooks "
                                       5.33
## 2 " Peter Bankes "
                                       5.25
## 3 " Michael Salisbury "
## 4 " Chris Kavanagh "
                                       5
## 5 " Graham Scott "
                                       5
## 6 " Craig Pawson "
                                       4.6
```

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