referees-cpmr

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2022-10-08

```
## Installing package into '/Users/runner/work/_temp/Library'
## (as 'lib' is unspecified)
##
##
    There is a binary version available but the source version is later:
           binary source needs_compilation
## rmarkdown 2.16
                   2.17
                                   FALSE
## installing the source package 'rmarkdown'
## -- 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 forcats 0.5.2
          2.1.3
## v readr
## -- 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>
## 1 " Michael Oliver "
                         7
                                 4
2
2
## 2 " Anthony Taylor "
                                               23
## 3 " Paul Tierney "
                         6
                                              25
## 4 " Stuart Attwell "
                         5
                                               18
                         5
## 5 " Simon Hooper "
                                    0
                                               15
## 6 " Robert Jones "
                          5
                                    1
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 "
                                          23
## 2 " Anthony Taylor "
                              7
                                          23
## 3 " Paul Tierney "
                                          25
## 4 " Stuart Attwell "
                             5
                                          18
## 5 " Simon Hooper "
                              5
                                          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),]</pre>
head(new_table)
## # A tibble: 6 x 4
## Referee
                           Matches Yellow.cards yellow_card_ratio
##
   <chr>
                                          <int>
                             <int>
## 1 " John Brooks "
                                 3
                                             16
                                                             5.33
## 2 " Peter Bankes "
                                             21
                                                             5.25
                                 4
## 3 " Michael Salisbury "
                                 3
                                             15
                                                             5
## 4 " Chris Kavanagh "
                                                             5
                                 1
                                             5
## 5 " Graham Scott "
                                              5
                                                             5
                                 1
                                                             4.6
## 6 " Craig Pawson "
                                             23
                                 5
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 "
                                        5
## 4 " Chris Kavanagh "
                                        5
## 5 " Graham Scott "
                                        5
## 6 " Craig Pawson "
                                        4.6
write.csv(data, "../cleaned-data/referees-cpmr.csv", row.names = FALSE)
```