

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/24/8k48jl6d249_n_qfxwsl6xvm0000gn/T//RtmpQicC9V/downloaded_packages

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr 0.3.4
## v tibble 3.1.6       v dplyr 1.0.8
## v tidyr 1.2.0        v stringr 1.4.0
## v readr 2.1.2        v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

raw_data <- read.csv("../scraped-data/referees.csv")
raw_data <- as_tibble(raw_data)

head(raw_data)

## # A tibble: 6 x 4
##   Referee      Matches Red.cards Yellow.cards
##   <chr>      <int>    <int>      <int>
## 1 Martin Atkinson    23         2         56
## 2 Craig Pawson       23         2        102
## 3 Anthony Taylor    23         4         89
## 4 Paul Tierney       23         2         94
## 5 Jonathan Moss      22         4         52
## 6 Michael Oliver     22         4         66

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 Martin Atkinson      23      56
## 2 Craig Pawson         23     102
## 3 Anthony Taylor       23      89
## 4 Paul Tierney         23      94
## 5 Jonathan Moss        22      52
## 6 Michael Oliver       22      66
```

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

```
## # A tibble: 6 x 4
##   Referee      Matches Yellow.cards yellow_card_ratio
##   <chr>         <int>      <int>          <dbl>
## 1 Michael Salisbury      2         11           5.5
## 2 John Brooks            3         16           5.33
## 3 David Coote           19         90           4.74
## 4 Peter Bankes          11         51           4.64
## 5 Craig Pawson          23        102           4.43
## 6 Kevin Friend          15         63           4.2
```

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

```
## # A tibble: 6 x 2
##   Referee      yellow_card_ratio
##   <chr>          <dbl>
## 1 Michael Salisbury      5.5
## 2 John Brooks           5.33
## 3 David Coote           4.74
## 4 Peter Bankes          4.64
## 5 Craig Pawson          4.43
## 6 Kevin Friend          4.2
```

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