

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//RtmpA073wZ/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 1.0.9
## v tidyr 1.2.0        v stringr 1.4.1
## v readr 2.1.2        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")
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 Peter Bankes      2         0         11
## 2 Simon Hooper      2         0         7
## 3 Robert Jones      2         0         7
## 4 Andy Madley       2         0         5
## 5 Andre Marriner    2         0         8
## 6 Michael Oliver    2         0         6
```

```
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 Peter Bankes      2         11
## 2 Simon Hooper      2         7
## 3 Robert Jones      2         7
## 4 Andy Madley       2         5
## 5 Andre Marriner    2         8
## 6 Michael Oliver    2         6
```

```
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 John Brooks      1         6             6
## 2 Peter Bankes     2        11          5.5
## 3 Paul Tierney     2        11          5.5
## 4 Michael Salisbury 1         5             5
## 5 Graham Scott     1         5             5
## 6 Andre Marriner   2         8             4
```

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

```
## # A tibble: 6 x 2
##   Referee      yellow_card_ratio
##   <chr>         <dbl>
## 1 John Brooks      6
## 2 Peter Bankes    5.5
## 3 Paul Tierney    5.5
## 4 Michael Salisbury 5
## 5 Graham Scott    5
## 6 Andre Marriner  4
```

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