

referees-cpmr

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2022-09-09

```
## 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//RtmpFyqB09/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 2.1.2        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 Michael Oliver      5         0         16
## 2 Anthony Taylor      5         2         17
## 3 Paul Tierney        5         2         21
## 4 Stuart Attwell      4         1         13
## 5 Peter Bankes        4         0         21
## 6 Simon Hooper        4         0         12
```

```
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      5         16
## 2 Anthony Taylor      5         17
## 3 Paul Tierney        5         21
## 4 Stuart Attwell      4         13
## 5 Peter Bankes        4         21
## 6 Simon Hooper        4         12
```

```
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      3         16          5.33
## 2 Peter Bankes     4         21          5.25
## 3 Graham Scott    1          5           5
## 4 Craig Pawson     4         19          4.75
## 5 Michael Salisbury 3         14          4.67
## 6 Paul Tierney     5         21          4.2
```

```
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 Graham Scott     5
## 4 Craig Pawson     4.75
## 5 Michael Salisbury 4.67
## 6 Paul Tierney     4.2
```

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