

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//RtmpQB3JFU/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 Stuart Attwell      3         1         6
## 2 Jarred Gillett      3         0        12
## 3 Andy Madley         3         0         8
## 4 Michael Oliver      3         0        10
## 5 Anthony Taylor      3         2        10
## 6 Paul Tierney        3         2        14
```

```
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 Stuart Attwell      3         6
## 2 Jarred Gillett      3        12
## 3 Andy Madley         3         8
## 4 Michael Oliver      3        10
## 5 Anthony Taylor      3        10
## 6 Paul Tierney        3        14
```

```
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 Peter Banks     2         11           5.5
## 2 Michael Salisbury 2         11           5.5
## 3 John Brooks     2         10           5
## 4 Graham Scott    1          5           5
## 5 Paul Tierney    3         14          4.67
## 6 Jarred Gillett  3         12           4
```

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

```
## # A tibble: 6 x 2
##   Referee      yellow_card_ratio
##   <chr>         <dbl>
## 1 Peter Banks     5.5
## 2 Michael Salisbury 5.5
## 3 John Brooks     5
## 4 Graham Scott    5
## 5 Paul Tierney    4.67
## 6 Jarred Gillett  4
```

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