teams-cpmr

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2022-08-29

```
## 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//RtmpRNxWRr/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/discipline.csv")
raw_data <- as_tibble(raw_data)
```

```
raw_columns <- raw_data %>% select(Team, Matches, Yellow.Cards)
head(raw_columns)
```

```
## # A tibble: 6 x 3
##   Team                          Matches Yellow.Cards
##   <chr>                           <int>        <int>
## 1 "  Bournemouth "                    4            9
## 2 "  Everton "                        4            9
## 3 "  Manchester United "              4           14
## 4 "  Chelsea "                        4            7
## 5 "  Southampton "                    4            4
## 6 "  Brighton and Hove Albion "       4            5
```

```
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
##   Team                   Matches Yellow.Cards yellow_card_ratio
##   <chr>                    <int>        <int>             <dbl>
## 1 "  Manchester United "       4           14              3.5
```

```
## 2 " Nottingham Forest "        3            9             3
## 3 "  Fulham "                  4           11             2.75
## 4 "  Aston Villa "             3            8             2.67
## 5 "  Newcastle United "        3            7             2.33
## 6 "  Bournemouth "             4            9             2.25
```

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

```
## # A tibble: 6 x 2
##   Team                   yellow_card_ratio
##   <chr>                              <dbl>
## 1 "  Manchester United "              3.5
## 2 " Nottingham Forest "               3
## 3 "  Fulham "                         2.75
## 4 "  Aston Villa "                    2.67
## 5 "  Newcastle United "               2.33
## 6 "  Bournemouth "                    2.25
```

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