teams-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//RtmpaIqZ6X/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/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 "  Brentford "                    33           54
## 2 "  West Ham United "               33           40
## 3 "  Norwich City "                  32           47
## 4 "  Brighton and Hove Albion "      32           65
## 5 "  Watford "                       32           54
## 6 "  Wolverhampton Wanderers "       32           53
```

```
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 "  Leeds United "                 32           91               2.84
## 2 "  Newcastle United "             32           72               2.25
## 3 "  Aston Villa "                  31           68               2.19
## 4 "  Everton "                      30           61               2.03
## 5 "  Brighton and Hove Albion "     32           65               2.03
## 6 "  Manchester United "            32           62               1.94
```

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

```
## # A tibble: 6 x 2
##   Team                          yellow_card_ratio
##   <chr>                                     <dbl>
## 1 "  Leeds United "                          2.84
## 2 "  Newcastle United "                      2.25
## 3 "  Aston Villa "                           2.19
## 4 "  Everton "                               2.03
## 5 "  Brighton and Hove Albion "              2.03
## 6 "  Manchester United "                     1.94
```

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