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//Rtmpb9PHgW/downloaded_packages
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.6     v purrr   0.3.4
## v tibble  3.1.7     v dplyr   1.0.9
## 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 "  Norwich City "                  38           55
## 2 "  Watford "                       38           57
## 3 "  Burnley "                       38           68
## 4 "  Wolverhampton Wanderers "       38           59
## 5 "  Leeds United "                  38          101
## 6 "  Brighton and Hove Albion "      38           73
```

```
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 "                 38          101               2.66
## 2 "  Newcastle United "             38           79               2.08
## 3 "  Aston Villa "                  38           79               2.08
## 4 "  Everton "                      38           78               2.05
## 5 "  Manchester United "            38           75               1.97
## 6 "  Brighton and Hove Albion "     38           73               1.92
```

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

```
## # A tibble: 6 x 2
##   Team                          yellow_card_ratio
##   <chr>                                     <dbl>
## 1 "  Leeds United "                          2.66
## 2 "  Newcastle United "                      2.08
## 3 "  Aston Villa "                           2.08
## 4 "  Everton "                               2.05
## 5 "  Manchester United "                     1.97
## 6 "  Brighton and Hove Albion "              1.92
```

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