referees-cpmr

Charles Adedotun

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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//Rtmp07cJvv/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 1.4.0
## 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/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 Robert Jones         2         0            7
## 2 Michael Oliver       2         0            6
## 3 Anthony Taylor       2         2            8
## 4 Paul Tierney         2         1           11
## 5 Stuart Attwell       1         0            4
## 6 Peter Bankes         1         0            6
```

```
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 Robert Jones         2            7
## 2 Michael Oliver       2            6
## 3 Anthony Taylor       2            8
## 4 Paul Tierney         2           11
## 5 Stuart Attwell       1            4
## 6 Peter Bankes         1            6
```

```r
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 Bankes        1           6                 6
## 2 John Brooks         1           6                 6
## 3 Paul Tierney        2          11               5.5
## 4 Craig Pawson        1           5                 5
## 5 Graham Scott        1           5                 5
## 6 Anthony Taylor      2           8                 4
```

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

```
## # A tibble: 6 x 2
##   Referee        yellow_card_ratio
##   <chr>                      <dbl>
## 1 Peter Bankes                   6
## 2 John Brooks                    6
## 3 Paul Tierney                 5.5
## 4 Craig Pawson                   5
## 5 Graham Scott                   5
## 6 Anthony Taylor                 4
```

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