Weekly FPL Points Dataset Creator

This document is used to create new players' datasets that describe weekly performance in the Premier league from 2016-2019

```r
library(tidyverse)
```

```
## -- Attaching packages ---------------------------------------- tidyverse 1.3.0 --
```

```
## v ggplot2 3.3.0     v purrr   0.3.4
## v tibble  3.0.1     v dplyr   0.8.5
## v tidyr   1.0.3     v stringr 1.4.0
## v readr   1.3.1     v forcats 0.5.0
```

```
## -- Conflicts ------------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
library(tidyr)
```

Loading the datasets

```r
s17_1 <- read.csv("~/DSI-SRP1/season2017.csv", encoding = "UTF-8")
s17_2 <- read.csv("~/DSI-SRP1/FPL_2016.csv")
s18_1 <- read.csv("~/DSI-SRP1/season2018.csv", encoding = "UTF-8")
s18_2 <- read.csv("~/DSI-SRP1/FPL_2017.csv")
s19_1 <- read.csv("~/DSI-SRP1/season2019.csv", encoding = "UTF-8")
s19_2 <- read.csv("https://raw.githubusercontent.com/vaastav/Fantasy-Premier-League/master/data/2018-19/
```

Function for transforming and merging datsets

```r
fpl_merge <- function(df, df2) {
  df2 <- df2 %>%
    rename(c(player_name = name))
  df1 <- df %>%
    select(player_name, club_name, position_index)
  df1$player_name <- as.character(df1$player_name)
  df2$player_name <- as.character(df2$player_name)
  df4 <- inner_join(df2, df1, by = "player_name")
  return(df4)
}
```

Premier League 2016/17

```r
s17_2 <- s17_2 %>%
  separate(name, into = c("first", "last"), "_")
s17_2 <- s17_2 %>%
  unite(name, first,last, sep = " ")
s17_3 <- fpl_merge(s17_1,s17_2)
nrow(s17_3)
```

```
## [1] 22065
```

```r
write_csv(s17_3, "FPL_2016_17.csv")
```

Premier League 2017/18

```r
s18_2 <- s18_2 %>%
  separate(name, into = c("first", "last"), "_")
s18_2 <- s18_2 %>%
  unite(name, first,last, sep = " ")
s18_3 <- fpl_merge(s18_1,s18_2)
nrow(s18_3)
```

```
## [1] 20186
```

```r
write_csv(s18_3, "FPL_2017_18.csv")
```

Premier League 2018/19

```r
s19_2 <- s19_2 %>%
  separate(name, into = c("first", "last", "id"), "_")
s19_2 <- s19_2 %>%
 unite(name, first:last, sep = " ")
s19_2 <- s19_2 %>%
  select(-id)
s19_3 <- fpl_merge(s19_1,s19_2)
nrow(s19_3)
```

```
## [1] 16979
```

```r
write_csv(s19_3, "FPL_2018_19.csv")
```