# 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

#### Loading the datasets

```
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</pre>
```

#### Function for transforming and merging datsets

```
fpl_merge <- function(df, df2) {
    df2 <- df2 %>%
        rename(c(player_name = name))
    df1 <- df %>%
        select(player_name, club_name, position_index, position, season)
    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)
}</pre>
```

## Premier League 2016/17

```
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

write_csv(s17_3, "FPL_2016_17.csv")</pre>
```

## Premier League 2017/18

```
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
write_csv(s18_3, "FPL_2017_18.csv")</pre>
```

#### Premier League 2018/19

```
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

write_csv(s19_3, "FPL_2018_19.csv")</pre>
```

### Loading newly made datasets

```
data17 <- read.csv("~/DSI-SRP1/FPL_2016_17.csv", encoding = "UTF-8")
data18 <- read.csv("~/DSI-SRP1/FPL_2017_18.csv", encoding = "UTF-8")
data19 <- read.csv("~/DSI-SRP1/FPL_2018_19.csv", encoding = "UTF-8")</pre>
```

#### Function for cumulatively adding specific columns

## Applying the functions on the datasets

```
year17 <- accumulated(data17)
year18 <- accumulated(data18)
year19 <- accumulated(data19)</pre>
```

#### Saving the accumulated datasets to csv files

```
write.csv(year17, "FPL_2016_17_new.csv")
write.csv(year18, "FPL_2017_18_new.csv")
write.csv(year19, "FPL_2018_19_new.csv")
```