FPL points predictor Data Import and Wrangling 2

This is a file for wrangling the second set of collected datasets

Importing the datasets on the premier league players

```
library(readxl)
FPL_201617 <- read_excel("~/DSI-SRP FILES/FPL 2016-17.xlsx")
FPL_201718 <- read_excel("~/DSI-SRP FILES/FPL 2017-18.xlsx")
FPL_201819 <- read_excel("~/DSI-SRP FILES/FPL 2018-19.xlsx")
Prem_201617 <- read_excel("~/DSI-SRP FILES/Premier League 2016-17.xlsx")
Prem_201718 <- read_excel("~/DSI-SRP FILES/Premier League 2017-18.xlsx")
Prem_201819 <- read_excel("~/DSI-SRP FILES/Premier League 2018-19.xlsx")</pre>
```

Loading tidyverse

Merging the datasets with the use of inner join

```
Prem_201617 <- as_tibble(Prem_201617)
play17 <- inner_join(Prem_201617, FPL_201617, by = c(player_name = "Full Name"))
play18 <- inner_join(Prem_201718, FPL_201718, by = c(player_name = "Full Name"))
play19 <- inner_join(Prem_201819, FPL_201819, by = c(player_name = "Full Name"))</pre>
```

Transforming elements in the position variable into factors

```
play17$position <- as_factor(play17$position)</pre>
levels(play17$position)
## [1] "Goalkeeper"
                              "Centre-Back"
                                                   "Left-Back"
## [4] "Right-Back"
                              "Defensive Midfield" "Central Midfield"
## [7] "Attacking Midfield" "Left Winger"
                                                   "Right Winger"
## [10] "Centre-Forward"
                              "Left Midfield"
                                                   "Right Midfield"
## [13] "Midfielder"
                              "Second Striker"
                                                   "Forward"
play18$position <- as_factor(play18$position)</pre>
levels(play18$position)
## [1] "Goalkeeper"
                              "Centre-Back"
                                                   "Left-Back"
## [4] "Right-Back"
                              "Defensive Midfield" "Central Midfield"
## [7] "Left Midfield"
                              "Left Winger"
                                                   "Right Winger"
## [10] "Centre-Forward"
                              "Attacking Midfield" "Right Midfield"
## [13] "Midfielder"
                                                   "Second Striker"
                              "Forward"
play19$position <- as_factor(play19$position)</pre>
levels(play19$position)
                              "Centre-Back"
                                                   "Left-Back"
## [1] "Goalkeeper"
                              "Defensive Midfield" "Central Midfield"
## [4] "Right-Back"
## [7] "Attacking Midfield" "Left Winger"
                                                   "Right Winger"
## [10] "Centre-Forward"
                                                   "Right Midfield"
                              "Left Midfield"
## [13] "Second Striker"
```

Creating function called position_indexer that builds a new column called position_index which indexes the position of the players.

```
position_indexer <- function(df) {
    df %>%
        mutate(position_index = if_else(position %in% c("Goalkeeper"),
    1,if_else(position %in% c("Centre-Back", "Left-Back", "Right-Back"),
    2,if_else(position %in% c("Defensive Midfield", "Central Midfield", "Left Midfield",
    "Right Midfield", "Midfielder"),
    3,if_else(position %in% c("Left Winger", "Right Winger", "Attacking Midfield"),
    4,if_else(position %in% c("Forward", "Second Striker", "Centre-Forward"),5,0))))))
}
```

Applying position indexer to the three datasets

```
play17 <- position_indexer(play17)
play18 <- position_indexer(play18)
play19 <- position_indexer(play19)</pre>
```

Saving the datasets as csv files

```
write_csv(play17, "season17.csv")
write_csv(play18, "season18.csv")
write_csv(play19, "season19.csv")
```