DSCI 401 - Homework 1

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${\bf 1.Set\ up\ a\ github\ account\ and\ create\ a\ repository\ called\ DSCI401}$$$$$$$$https://github.com/iisabel/DSCI-401.git$	
2. Create an R Markdown file and run the following code:	
$\label{local_def} $$ df \leftarrow read.csv("/Users/isabelheard/Downloads/DSCI 401/DSCI401_git/data/cubs_all_time.csv' $	")
A) How many total games have the Cubs won and lost between 1876 and 2022	?
<pre>sum(df\$W)</pre>	
## [1] 11141 sum(df\$L)	
## [1] 10592 11141 games won between 1876 and 2022. 10592 games lost between 1876 and 2022.	
B) What year did the Cubs score the most runs?	
<pre>#max(df\$R) which.max(df\$R)</pre>	

```
df[129,]
                       Tm Lg
                               G W L Ties W.L. pythW.L.
                                                               Finish
## 129 1894 Chicago Colts NL 137 57 75
                                          5 0.432
                                                       0.49 8th of 12 34.0
              RA Attendance BatAge PAge X.Bat X.P
                                                         Top.Player
                                                                           Managers
## 129 1056 1080
                     239000
                              27.3 26.6
                                            22
                                                 9 C.Griffith (5.9) C.Anson (57-75)
The cubs scored the most runs (1056) in 1894.
```

B2) What year did the Cubs score the fewest runs?

```
#min(df$R)
which.min(df$R)
## [1] 3
df[3,]
##
    Year
                    Tm
                              Lg G W L Ties W.L. pythW.L.
                                                                 Finish GB
## 3 2020 Chicago Cubs NL Central 60 34 26
                                              0 0.567
                                                         0.545 1st of 5 --
           Playoffs
                      R RA Attendance BatAge PAge X.Bat X.P
                                                                   Top.Player
## 3 Lost NLWC (2-0) 265 240
                                    NA
                                          27.9 30.3
                                                       47 26 Y.Darvish (2.8)
          Managers
## 3 D.Ross (34-26)
```

The cubs scored the least runs (265) in 2020.

B3) Do you have any thoughts about the year that the Cubs scored the fewest runs?

COVID-19 meant that there were fewer games.

C) In how many seasons was the Cubs total attendance (i.e. the variable Attendance) over 3 million?

```
#df$Attendance >= 3000000
length(which(df$Attendance >= 3000000))
```

[1] 12

12 seasons the total club attendance was over 3 million.

Python code link

https://colab.research.google.com/drive/1Pg0RwYnDq1VCvyB0 iPm5WyZk1lQ98Cy?usp=sharing