Project 1 Data 607

Coco Donovan

2023-02-12

Necessary Packages

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(stringr)
library(tidyr)
```

Loading Raw Txt File

```
chess <- 'https://raw.githubusercontent.com/cocodono/Project-1-Data-607/main/Chess%20Players'

chess <- readLines(chess)

chess <- data.frame(chess)
```

Removing the lines of dashes

```
chess <- data.frame(chess[chess != '-------------------------------------------------------------------
```

Even and Odd Rows

```
row_odd <- seq_len(nrow(chess)) %% 2

odd_chess <- data.frame(chess[row_odd == 1,])[-1,]
even_chess <- data.frame(chess[row_odd == 0,])[-1,]
```

Making a dataframe out of odd_chess

```
odd_cols <- c('Pair','Player_Name','Total','Round_1_opponent','Round_2_opponent','Round_3_opponent','Rou

separated_odd <- odd_chess %>%
  as.data.frame() %>%
  separate(1, into = odd_cols, sep = "\\|")
```

```
## Warning: Expected 10 pieces. Additional pieces discarded in 64 rows [1, 2, 3, 4, 5, 6,
## 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, ...].
```

```
row_id <- c(1:nrow(separated_odd))
separated_odd$row_id <- row_id
```

Making a dataframe out of even_chess

```
even_cols <- c('Number','USCF_ID / Rtg (Pre->Post)','N','Round_1_result','Round_2_result','Round_3_resul

separated_even <- even_chess %>%
  as.data.frame() %>%
  separate(1, into = even_cols, sep = "\\|")
```

```
## Warning: Expected 10 pieces. Additional pieces discarded in 64 rows [1, 2, 3, 4, 5, 6,
## 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, ...].
```

```
row_id <- c(1:nrow(separated_even))
separated_even$row_id <- row_id

separated_even
```

```
##    Number         USCF_ID / Rtg (Pre->Post)     N Round_1_result Round_2_result
## 1     ON   15445895 / R: 1794   ->1817      N:2              W              B
## 2     MI   14598900 / R: 1553   ->1663      N:2              B              W
## 3     MI   14959604 / R: 1384   ->1640      N:2              W              B
## 4     MI   12616049 / R: 1716   ->1744      N:2              W              B
## 5     MI   14601533 / R: 1655   ->1690      N:2              B              W
## 6     OH   15055204 / R: 1686   ->1687      N:3              W              B
## 7     MI   11146376 / R: 1649   ->1673      N:3              W              B
## 8     MI   15142253 / R: 1641P17->1657P24   N:3              B              W
## 9     ON   14954524 / R: 1411   ->1564      N:2              W              B
## 10    MI   14150362 / R: 1365   ->1544      N:3              W              W
## 11    MI   12581589 / R: 1712   ->1696      N:3            B              W
## 12    MI   12681257 / R: 1663   ->1670      N:3            W              B
## 13    MI   15082995 / R: 1666   ->1662      N:3            B              W
## 14    MI   10131499 / R: 1610   ->1618      N:3            W              B
## 15    MI   15619130 / R: 1220P13->1416P20   N:3            B              B
## 16    MI   10295068 / R: 1604   ->1613      N:3            B              W
## 17    MI   10297702 / R: 1629   ->1610      N:3            W              B
## 18    MI   11342094 / R: 1600   ->1600      N:3            B              W
## 19    MI   14862333 / R: 1564   ->1570      N:3            W              B
## 20    MI   14529060 / R: 1595   ->1569      N:4            W              B
## 21    ON   15495066 / R: 1563P22->1562      N:3            B              W
## 22    MI   12405534 / R: 1555   ->1529      N:4            W              B
## 23    ON   15030142 / R: 1363   ->1371                     B              W
## 24    MI   13469010 / R: 1229   ->1300      N:4            B              W
## 25    MI   12486656 / R: 1745   ->1681      N:4            B              W
## 26    ON   15131520 / R: 1579   ->1564      N:4            B              W
## 27    MI   14476567 / R: 1552   ->1539      N:4            W              B
## 28    MI   14882954 / R: 1507   ->1513      N:3            W              W
## 29    MI   15323285 / R: 1602P6 ->1508P12   N:4            B              W
## 30    ON   12577178 / R: 1522   ->1444                     W              B
## 31    MI   15131618 / R: 1494   ->1444                     B              W
## 32    ON   14073750 / R: 1441   ->1433      N:4            W              B
## 33    MI   14691842 / R: 1449   ->1421                     B              W
## 34    MI   15051807 / R: 1399   ->1400                     B              W
## 35    MI   14601397 / R: 1438   ->1392                     W              W
## 36    MI   14773163 / R: 1355   ->1367      N:4            W              B
## 37    MI   15489571 / R:  980P12->1077P17                                 B
## 38    MI   15108523 / R: 1423   ->1439      N:4            W              B
## 39    MI   12923035 / R: 1436P23->1413      N:4            B              W
## 40    MI   14892710 / R: 1348   ->1346                     B              B
## 41    MI   15761443 / R: 1403P5 ->1341P9                   B              W
## 42    MI   14462326 / R: 1332   ->1256                     B              W
## 43    MI   14101068 / R: 1283   ->1244                     W              B
## 44    MI   15323504 / R: 1199   ->1199                                    W
## 45    MI   15372807 / R: 1242   ->1191                     W              B
## 46    MI   15490981 / R:  377P3 ->1076P10                  B              W
## 47    MI   12533115 / R: 1362   ->1341                     W              B
## 48    MI   14369165 / R: 1382   ->1335                     B              W
## 49    MI   12531685 / R: 1291P12->1259P17                  W              W
## 50    MI   14773178 / R: 1056   ->1111                     W              B
## 51    MI   15205474 / R: 1011   ->1097                     B              W
## 52    MI   14918803 / R:  935   ->1092      N:4            B              W
## 53    MI   12578849 / R: 1393   ->1359                                    B
## 54    MI   12836773 / R: 1270   ->1200                     B              B
## 55    MI   15412571 / R: 1186   ->1163                     W              B
## 56    MI   14679887 / R: 1153   ->1140                                    B
## 57    MI   15113330 / R: 1092   ->1079                     B              W
## 58    MI   14700365 / R:  917   -> 941                     W              B
## 59    MI   12841036 / R:  853   -> 878                     W
## 60    MI   14579262 / R:  967   -> 984                     W              B
## 61    ON   15771592 / R:  955P11-> 979P18                  B              W
## 62    MI   15219542 / R: 1530   ->1535                     B
## 63    MI   15057092 / R: 1175   ->1125                     W              B
## 64    MI   15006561 / R: 1163   ->1112                     B              W
##    Round_3_result Round_4_result Round_5_result Round_6_result Round_7_result
## 1           W              B              W              B              W
## 2           B              W              B              W              B
## 3           W              B              W              B              W
## 4           W              B              W              B              B
## 5           B              W              B              W              B
## 6           W              B              B              W              B
## 7           W              B              B              W              W
## 8           B              W              B              W              W
## 9           W              B              W              B              B
## 10          B              B              W              B              W
## 11          B              W              B              W              B
## 12          W              B                             W              B
## 13          B              B              W              W              B
## 14          W              W              B              B              W
## 15          W              W              B              B              W
## 16                         B              W              B
## 17          W              B              W              B              W
## 18          B              W              B              W              B
## 19          W              B              W              W              B
## 20          W              B              W              B              W
## 21          B              W              W              B              W
## 22          W              B                             W              B
## 23          B              W              B              W              B
## 24          B              B              W              W              B
## 25          B              W              B              W              B
## 26          B              W              B              W              W
## 27          W              B              W              B
## 28          B              W              B              B              W
## 29          B              W              W              B
## 30          B              W              W              B              B
## 31          B              W              B              W              B
## 32          W              B              W              B              W
## 33          B              W              B              W              B
## 34          B              B              W              B              W
## 35          B              W              B              B              W
## 36          W              B                             W              B
## 37          W              W                             B              W
## 38          W              W                             B              B
## 39          B              W              B              W              W
## 40          W              W              B              W              W
## 41          B              W
## 42          B              B              W              W              B
## 43          W              W              B              B              W
## 44          B              B              W              B              W
## 45          W              B              W              B              W
## 46          B              W              B              W              W
## 47          W              B              W              B              W
## 48                         B                             W              B
## 49          B              W              B
## 50          W              B                             B              W
## 51          B              W              B              W              W
## 52          B              W              B              W              B
## 53                         W                             W
## 54          W                             W              B              W
## 55          W              B                             W              B
## 56          W              W                             B              W
## 57          W              B              W              B
## 58          W              B              W                             B
## 59          B              B              W              W              B
## 60          B              W              B
## 61          B              W              B              W              B
## 62
## 63          W              B              B
## 64          W              B              W              B              B
##    row_id
## 1       1
## 2       2
## 3       3
## 4       4
## 5       5
## 6       6
## 7       7
## 8       8
## 9       9
## 10     10
## 11     11
## 12     12
## 13     13
## 14     14
## 15     15
## 16     16
## 17     17
## 18     18
## 19     19
## 20     20
## 21     21
## 22     22
## 23     23
## 24     24
## 25     25
## 26     26
## 27     27
## 28     28
## 29     29
## 30     30
## 31     31
## 32     32
## 33     33
## 34     34
## 35     35
## 36     36
## 37     37
## 38     38
## 39     39
## 40     40
## 41     41
## 42     42
## 43      43
## 44      44
## 45      45
## 46      46
## 47      47
## 48      48
## 49      49
## 50      50
## 51      51
## 52      52
## 53      53
## 54      54
## 55      55
## 56      56
## 57      57
## 58      58
## 59      59
## 60      60
## 61      61
## 62      62
## 63      63
## 64      64
```

```
full_chess <- merge(separated_odd, separated_even, by = 'row_id') %>%
  subset(select = -c(row_id))
```