tickets_10042021

October 4, 2021

1 GSF Sigma Ticket Report 9/27/21-10/4/21

1.1 Load Data

```python
import pandas as pd
import numpy as np

file_path = 'tickets_10042021.csv'

ticket_data = pd.read_csv(file_path, index_col = 0)
ticket_data.index = ticket_data.index.str.capitalize()
```

1.2 Guild Weekly Average Tickets

```python
print(round(ticket_data.iloc[:,4:].stack().replace('-',600).astype('int64').
 →mean(),0))
```

```
584.0
```

1.3 All players with an average of 500 tickets or less

```python
n = 500
under500 = ticket_data[ticket_data["averageTickets"] < 500]["averageTickets"]
print(under500)
```

```
Series([], Name: averageTickets, dtype: int64)
```

1.4 All players who missed 3 or more days of tickets

```python
ndays = 3
ticket_goal = 600
# Replacing with 600 so it doesn't count as a strike for getting 0s
dates = ticket_data.iloc[:, 4:].replace('-',600).astype('int64')
dates['missed'] = dates[dates < ticket_goal].count(1)
strike_days = ticket_data[dates['missed'] >= ndays].index
print(pd.DataFrame(strike_days))
```

```
          Name
0    Wolfman314
1   Wamakima5004
```

1.5   All Players with 0s

```
[ ]: dates['zeros'] = dates[dates.iloc[:, :-1] == 0].count(1)
     strike_zero = ticket_data[dates['zeros'] >= 1].index
     print(pd.DataFrame(strike_zero))
```

```
            Name
0   Plucky haydon
1           Joker
```

1.6   Number of Strikes

```
[ ]: # Take the union of strike_days and strike_zero
     names = set(strike_days) | set(strike_zero)
     strikes = pd.DataFrame([0]*len(names), index = names, columns = ['numStrikes'])

     # Add a strike for each violation
     for name in strikes.index:
             if name in strike_days.values:
                     if dates['missed'].loc[name] >= 2*ndays:
                             strikes.loc[name] += 1
                     strikes.loc[name] += 1
             if name in strike_zero.values:
                     strikes.loc[name] += 1

     strikes = strikes.sort_index()
     print(strikes)
```

```
                  numStrikes
Joker                      1
Plucky haydon              1
Wamakima5004               1
Wolfman314                 1
```

1.7   Weekly Ticket Average

```
[ ]: ticket_data['averageTickets'].sort_values()
```

```
[ ]: Name
     Wamakima5004           526
     Agave                  529
     Justinalexander11      534
     Zlada14                537
     Joker                  552
```

```
Evilcoyote2011           554
Ben8cv                   559
Ilekkund                 563
Heywood jablowme         564
Plucky haydon            566
Sloppysaberflavor        569
Gryphix                  570
Chaunce                  570
Akb                      573
Ilekkund2                577
Higgs                    577
M1tth                    578
Argarax                  580
Babyyodahitta            582
Ottovongens              584
Promethean               584
Neeb                     586
Shootmeow                587
The wall                 589
S o l o                  591
Flywire                  591
Baxston kane             591
Maxaron lexilon          592
Wolfman314               592
Theflavorgreen           593
Doomslug the destroyer   594
Calens                   594
Guntha arbos             594
Masajj vemtits           594
Exeel                    594
Mini xipokemastrix       595
Tacopizza                595
Obi won sebroni          595
Ganic                    595
Padawantano              597
Philo beddoe             598
Zhil axfow               599
Mini stewabob            599
One                      599
Loadage                  600
Elros halfelven          600
Dark penguin             600
Tommyboy85               600
Revanche gilder          600
Name: averageTickets, dtype: int64
```