tickets_08022021

August 2, 2021

1 GSF Sigma Ticket Report 7/26/21-8/2/21

1.1 Load Data

[1]:
```
import pandas as pd
import numpy as np

file_path = 'tickets_08022021.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

[2]:
```
print(round(ticket_data.iloc[:,4:].stack().replace('-',600).astype('int64').
↪mean(),0))
```

```
591.0
```

1.3 All players with an average of 500 tickets or less

[3]:
```
n = 500
under500 = ticket_data[ticket_data["averageTickets"] < 500]["averageTickets"]
print(under500)
```

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

[4]:
```
# All players who missed 3 or more days of tickets

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  Ilekkund
1     Agave
```

[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  Ilekkund
```

[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
Agave               1
Ilekkund            2
```

[ ]: