

tickets__07192021

July 19, 2021

1 GSF Sigma Ticket Report 7/13/21-7/19/21

1.1 Load Data

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

file_path = 'tickets_07192021.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

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

570.0

1.3 All players with an average of 500 tickets or less

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

```
Name
Tommy          432
Quinton samulson  427
Corran horn     434
Diesel87        444
Name: averageTickets, dtype: int64
```

```
[10]: # 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	Tommy
1	Quinton samulson
2	Indeedus
3	Corran horn
4	T swizzle
5	Diesel87

```

[11]: # 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	Quinton samulson
1	Corran horn
2	Diesel87
3	Starshaker

```

[12]: # 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
Corran horn	2
Diesel87	2
Indeedus	1
Quinton samulson	2
Starshaker	1
T swizzle	1
Tommy	1

[]: