

# tickets\_10182021

October 18, 2021

## 1 GSF Sigma Ticket Report 10/11/21-10/18/21

### 1.1 Load Data

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

file_path = 'tickets_10182021.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

```
[ ]: 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

```
[ ]: 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

```
[ ]: 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	The wall

```
1 Plucky haydon
2      Flywire
```

## 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 Heywood jablowme
1   Plucky haydon
```

## 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
Flywire          1
Heywood jablowme  1
Plucky haydon     2
The wall          1
```

## 1.7 Weekly Ticket Average

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

```
[ ]: Name
      Wamakima5004          524
      Plucky haydon          536
      Agave                 541
      Zlada14               547
      Justinaalexander11     557
      Heywood jablowme       562
```

Evilcoyote2011	562
Ilekkund	563
Ben8cv	566
Sloppysaberflavor	566
Joker	567
Akb	568
Chaunce	575
Gryphix	575
Ilekkund2	577
Higgs	579
Mitth	580
The wall	581
Argarax	582
Babbyodahitta	583
Promethean	585
Neeb	585
Ottovongens	587
Shootmeow	589
Flywire	590
Larping soccer moms	590
Wolfman314	592
Maxaron lexilon	592
Baxston kane	592
Masajj vemtits	592
S o l o	593
Guntha arbos	594
Theflavorgreen	594
Exeel	594
Ganic	595
Calens	595
Doomslug the destroyer	595
Tacopizza	596
Obi won sebroni	596
Mini xipokemastrix	596
Padawantano	597
Philo beddoe	598
Zhil axfow	599
Mini stewabob	599
One	599
Loadage	600
Elros halfelven	600
Tommyboy85	600
Dark penguin	600
Revanche gilder	600
Name: averageTickets, dtype: int64	