DSAN 6100 Homework 4 Question 7 Report

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```python
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt


df = pd.read_csv("report.csv")
days = ["Sat", "Sun", "Mon", "Tue", "Wed", "Thu", "Fri"]
days_30 = []
for i in range(30):
    day_index = i % 7
    days_30.append(days[day_index])

df["Day"] = days_30
df.head()
```

	FlightDate	Avg_flight	Day
0	6/1/19	17404.00	Sat
1	6/2/19	19093.00	Sun
2	6/3/19	19960.00	Mon
3	6/4/19	20213.00	Tue
4	6/5/19	21185.25	Wed

```python
sns.pointplot(x=np.arange(1,31),y=df["Avg_flight"],hue=df["Day"])
plt.xlabel("Day")
plt.ylabel("Average number of flights")
plt.title("Average number of flights over the 3 preceding days in June 2019")
plt.show()
```

Average number of flights over the 3 preceding days in June 2019
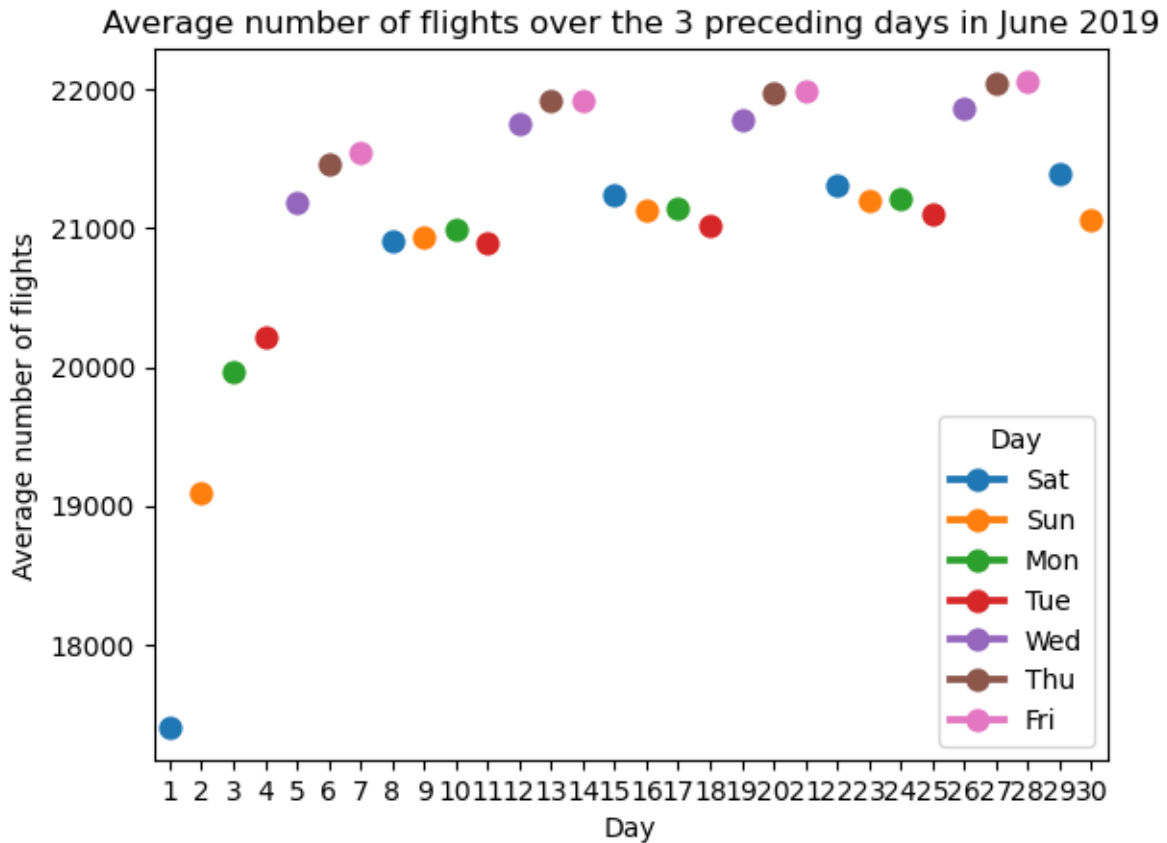
1. There is a pretty clear pattern of flights in terms of average number of flights in June 2019.
2. Wednesday, Thursday, and Friday has the highest average number of flights over the 3 preceding days.
3. This means that Saturday and Sunday are most likely to have less flights than other days on avearge.