

```
In [25]: 1 import numpy as np
          2 import seaborn as sns
          3 import pandas as pd
          4 import pandas_bokeh
          5 import plotly
          6 import panel as pn
          7 import plotly.express as px
          8 pn.extension()
          9 from panel import widgets
         10 import matplotlib.pyplot as plt
```

```
In [4]: 1 #high price data
        2 high_price_data= pd.read_csv('results.csv')
        3 high_price_data
```

Out[4]:

	Ticker Name	High Price	Hour
0	BYND	104.7	9
1	BYND	106.5	10
2	BYND	107.7	11
3	BYND	108.8	12
4	BYND	110.7	13
...
65	TTD	494.5	11
66	TTD	491.4	12
67	TTD	497.2	13
68	TTD	508.7	14
69	TTD	515.5	15

70 rows x 3 columns

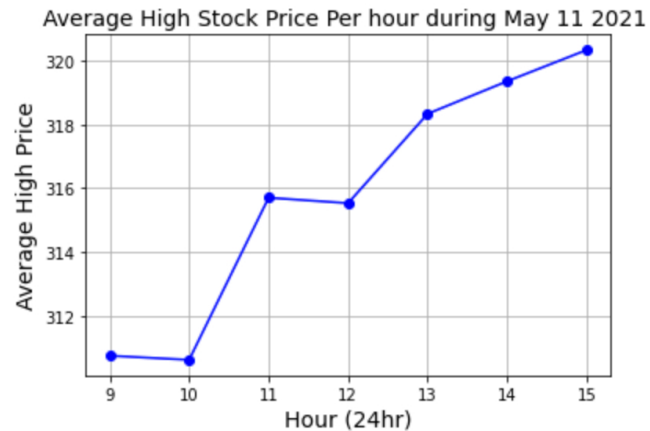
```
In [12]: 1 pivot = high_price_data.pivot_table(index=['Hour'], values=['High Price'], aggfunc='mean')
          2 pivot=pivot.reset_index()
          3 pivot
```

Out[12]:

	Hour	High Price
0	9	310.75
1	10	310.62

2	11	315.70
3	12	315.53
4	13	318.33
5	14	319.35
6	15	320.33

```
In [22]: 1 plt.plot(pivot['Hour'], pivot['High Price'], color='blue', marker='o')
2 plt.title('Average High Stock Price Per hour during May 11 2021 ', fontsize=14)
3 plt.xlabel('Hour (24hr)', fontsize=14)
4 plt.ylabel('Average High Price', fontsize=14)
5 plt.grid(True)
6 plt.show()
```



```
In [23]: 1 df = high_price_data.pivot(index='Hour', columns='Ticker Name', values='High Price')
2 df
```

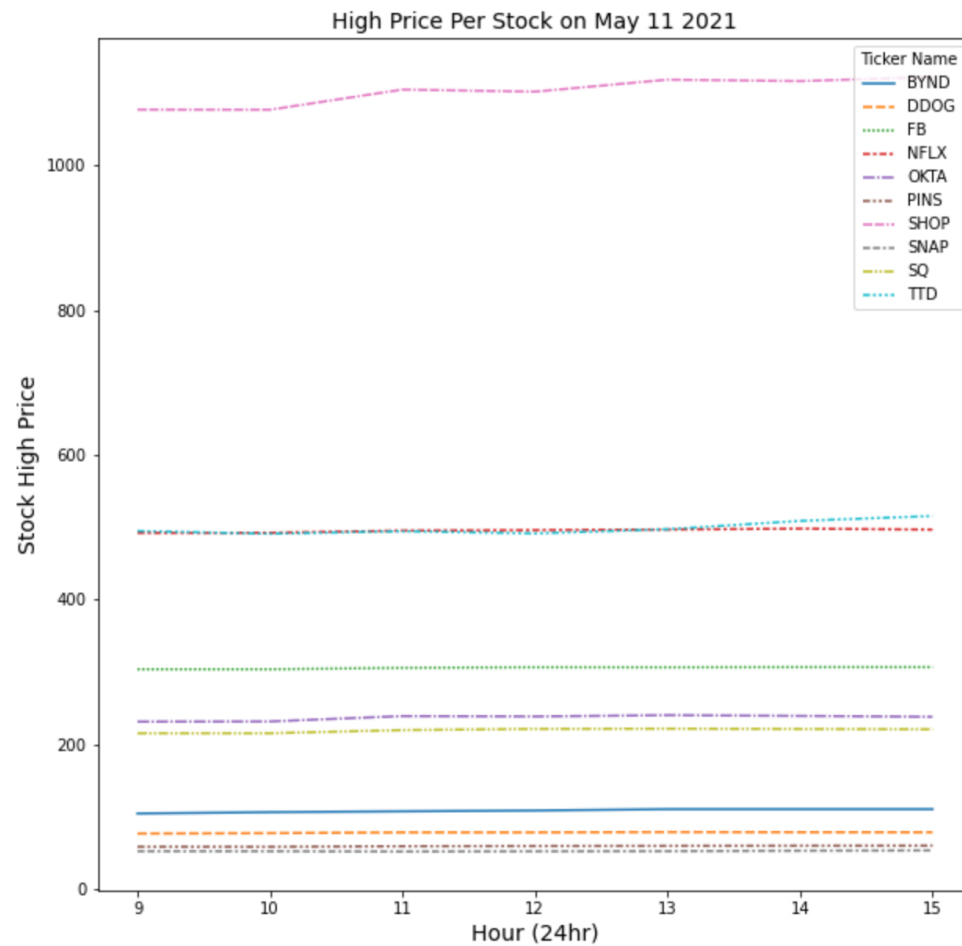
Out[23]:

	Ticker Name	BYND	DDOG	FB	NFLX	OKTA	PINS	SHOP	SNAP	SQ	TTD
Hour											
9	104.7	77.0	303.9	492.1	231.5	58.8	1076.6	52.6	215.5	494.8	
10	106.5	77.5	303.9	492.3	231.8	58.7	1076.5	52.6	215.5	490.9	
11	107.7	78.6	305.8	495.3	239.2	59.5	1104.3	52.2	219.9	494.5	
12	108.8	78.6	306.6	496.0	238.7	59.8	1101.4	52.5	221.5	491.4	
13	110.7	79.1	306.5	496.8	240.5	60.0	1118.0	52.7	221.8	497.2	
14	110.7	78.9	306.8	498.0	239.5	60.2	1116.0	53.3	221.4	508.7	
15	110.7	78.8	306.8	496.7	238.2	60.3	1121.6	53.7	221.0	515.5	

```
In [33]: 1 plt.figure(figsize=(10,10))
2 sns.lineplot(data=df)
3 plt.title('High Price Per Stock on May 11 2021', fontsize=14)
4 plt.xlabel('Hour (24hr)', fontsize=14)
```

```
5 plt.ylabel('Stock High Price', fontsize=14)  
6
```

Out[33]: Text(0, 0.5, 'Stock High Price')



In []: 1