

```
In [21]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [22]: df=pd.read_csv('Results.csv')
```

```
In [23]: df
```

```
Out[23]:
```

	name	high	hour	ts
0	BYND	37.804901	9	2022-05-02 09:55:00
1	BYND	37.990002	10	2022-05-02 10:30:00
2	BYND	37.590000	11	2022-05-02 11:30:00
3	BYND	37.330002	12	2022-05-02 12:20:00
4	BYND	36.570000	13	2022-05-02 13:05:00
...
75	TTD	60.979900	12	2022-05-02 12:20:00
76	TTD	59.939999	13	2022-05-02 13:00:00
77	TTD	59.939999	13	2022-05-02 13:10:00
78	TTD	60.279999	14	2022-05-02 14:50:00
79	TTD	62.119999	15	2022-05-02 15:55:00

80 rows × 4 columns

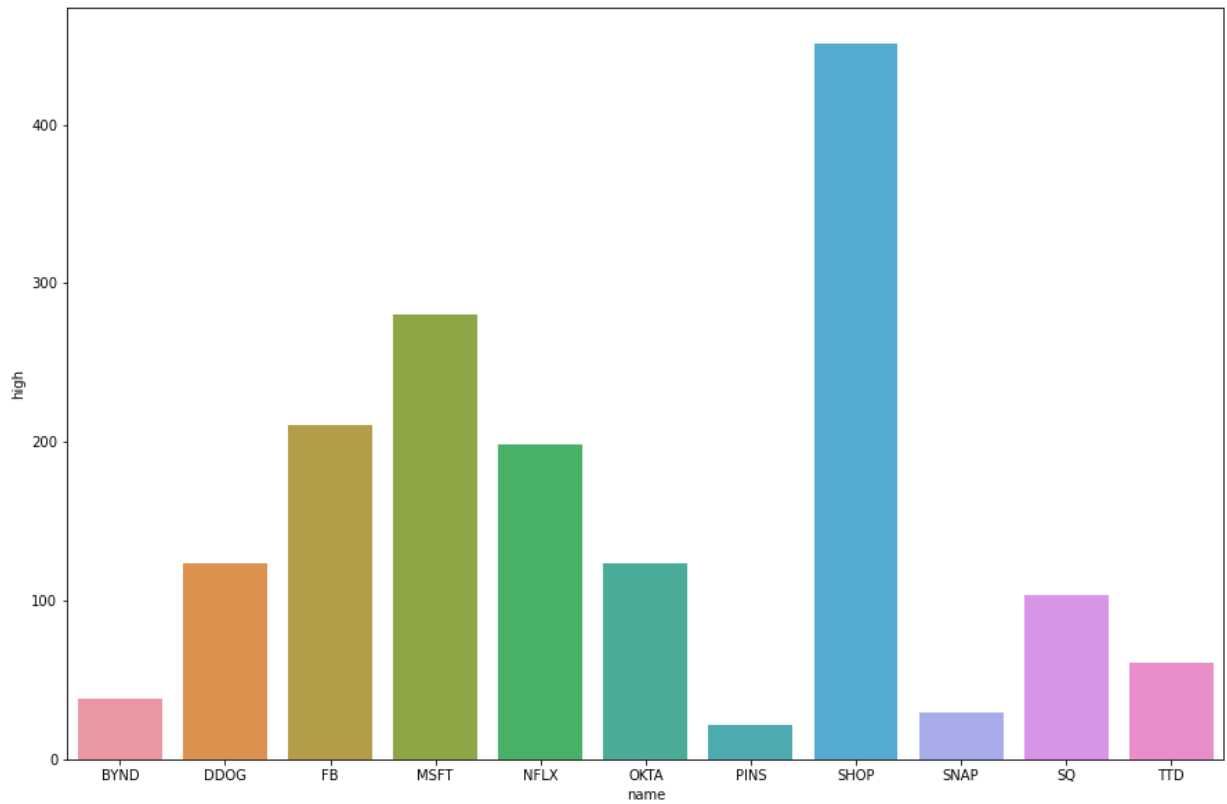
```
In [26]: dff=df.loc[df['hour']==9]
dff
```

```
Out[26]:
```

	name	high	hour	ts
0	BYND	37.804901	9	2022-05-02 09:55:00
7	DDOG	123.339996	9	2022-05-02 09:55:00
14	FB	210.729996	9	2022-05-02 09:55:00
21	MSFT	280.440002	9	2022-05-02 09:55:00
28	NFLX	198.600006	9	2022-05-02 09:55:00
35	OKTA	123.349998	9	2022-05-02 09:55:00
42	PINS	21.240000	9	2022-05-02 09:55:00
50	SHOP	451.000000	9	2022-05-02 09:40:00
57	SNAP	29.540001	9	2022-05-02 09:50:00
65	SQ	103.069901	9	2022-05-02 09:55:00

```
In [29]: plt.figure(figsize=(15,10))
sns.barplot(x=df2.index,y='high',data=df2)
```

Out[29]: <AxesSubplot:xlabel='name', ylabel='high'>



```
In [30]: df2=df.groupby(['name','hour']).max('high')
df2
```

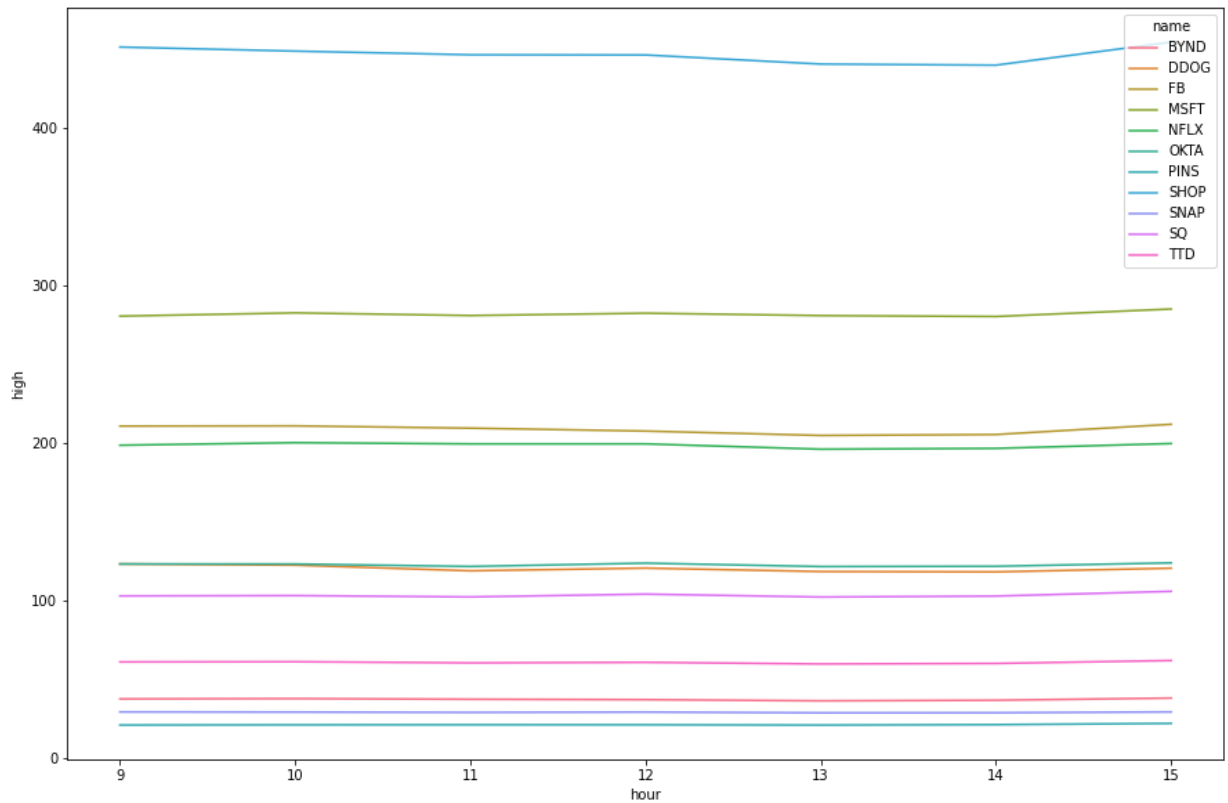
Out[30]:

high		
name	hour	
BYND	9	37.804901
	10	37.990002
	11	37.590000
	12	37.330002
	13	36.570000
...
TTD	11	60.639999
	12	60.979900
	13	59.939999
	14	60.279999
	15	62.119999

77 rows × 1 columns

```
In [32]: plt.figure(figsize=(15,10))  
  
sns.lineplot(y='high',x='hour',data=df2,hue='name')
```

Out[32]: <AxesSubplot:xlabel='hour', ylabel='high'>



```
In [33]: dfs=df.groupby('name').min('ts')
```

```
In [34]: dfe=df.groupby('name').max('ts')
```

```
In [35]: dfoc=pd.concat([dfs, dfe], axis=0)
```

```
In [36]: dfoc
```

Out[36]:

	high	hour
name		
BYND	36.570000	9
DDOG	118.309998	9
FB	204.809998	9
MSFT	280.204987	9

	high	hour
name		
NFLX	196.089996	9
OKTA	121.695099	9
PINS	21.219999	9
SHOP	439.519897	9
SNAP	28.969999	9
SQ	102.370003	9
TTD	59.939999	9
BYND	38.330002	15
DDOG	123.339996	15
FB	211.880005	15
MSFT	284.940002	15
NFLX	200.214096	15
OKTA	124.004997	15
PINS	22.275000	15
SHOP	454.140015	15
SNAP	29.540001	15

```
In [38]: plt.figure(figsize=(15,10))  
sns.barplot(x=dfoc.index,y='high',data=dfoc,hue='hour')
```

```
Out[38]: <AxesSubplot:xlabel='name', ylabel='high'>
```



```
In [39]: dfa=df.groupby(['name','hour']).max('high')
```

```
In [40]: dfa
```

```
Out[40]:
```

		high
	name	hour

	BYND	9	37.804901
		10	37.990002
		11	37.590000
		12	37.330002
		13	36.570000

	TTD	11	60.639999
		12	60.979900
		13	59.939999
		14	60.279999
		15	62.119999

77 rows x 1 columns

```
In [41]: dfa=dfa.groupby('name').mean('high')
```

```
In [42]: dfa
```

```
Out[42]:
```

	name	high
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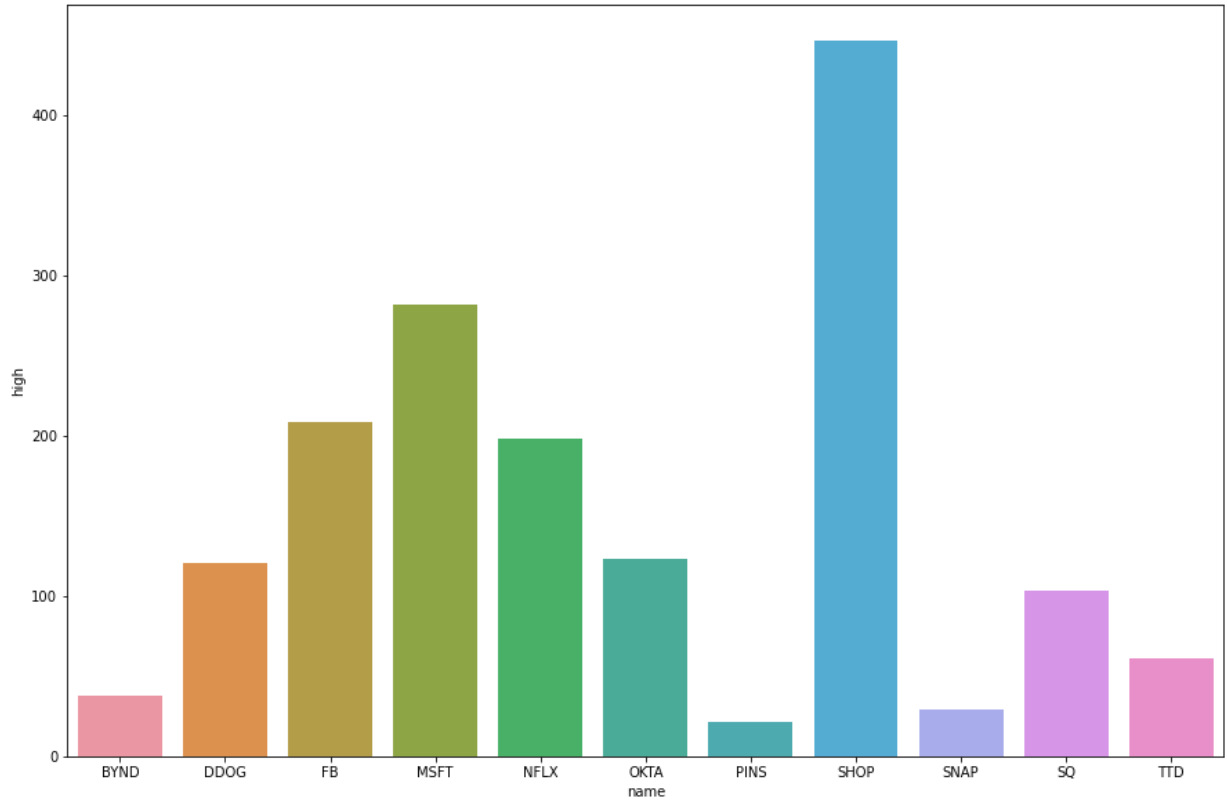
	BYND	37.509272
	DDOG	120.444085
	FB	208.667143
	MSFT	281.707851
	NFLX	198.579099
	OKTA	122.836442
	PINS	21.485714
	SHOP	446.482130
	SNAP	29.311429

high

name

```
In [43]: plt.figure(figsize=(15,10))  
sns.barplot(x=dfa.index,y='high',data=dfa)
```

```
Out[43]: <AxesSubplot:xlabel='name', ylabel='high'>
```



```
In [ ]:
```