Connected to Python 3.12.0

In [ ]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

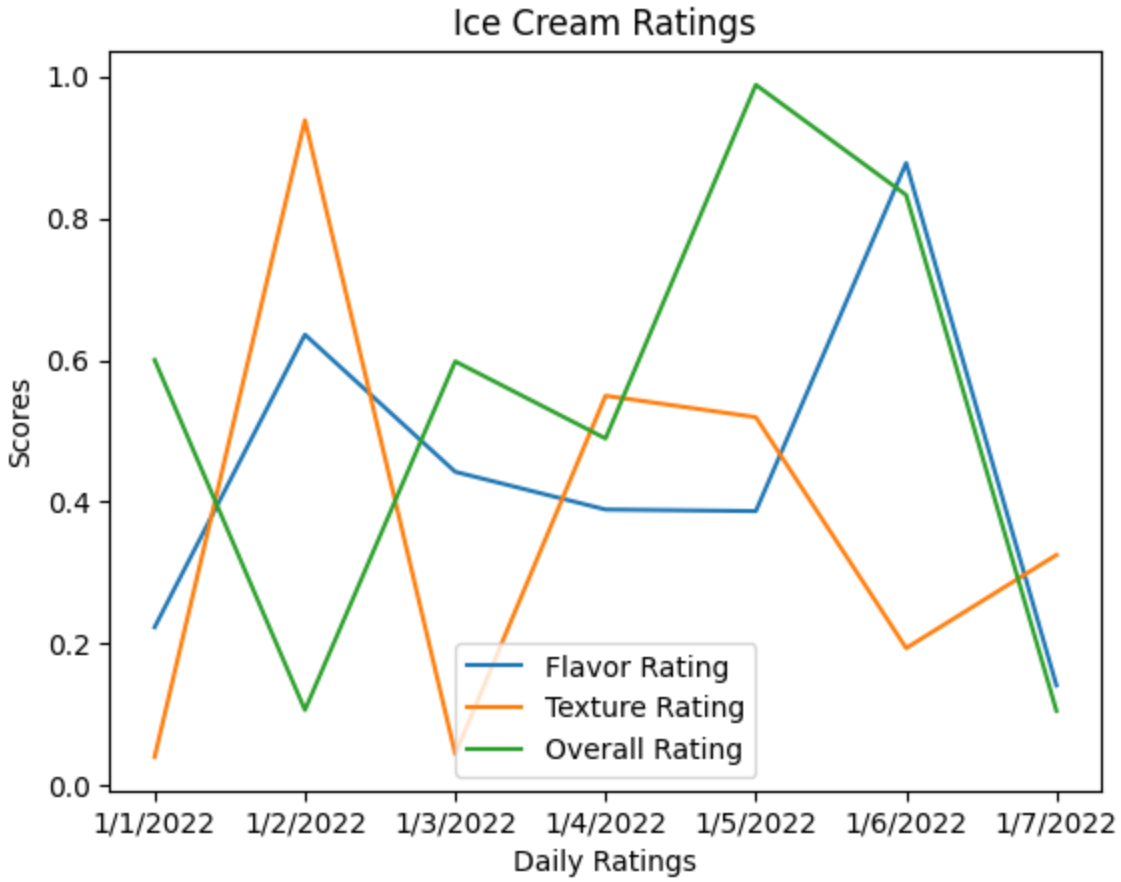
In [ ]:
```
df = pd.read_csv(r"C:\Users\condr\Documents\pythonPandas\Ice Cream Ratings.csv")
df = df.set_index("Date")
df
```

Out[ ]:

Date	Flavor Rating	Texture Rating	Overall Rating
1/1/2022	0.223090	0.040220	0.600129
1/2/2022	0.635886	0.938476	0.106264
1/3/2022	0.442323	0.044154	0.598112
1/4/2022	0.389128	0.549676	0.489353
1/5/2022	0.386887	0.519439	0.988280
1/6/2022	0.877984	0.193588	0.832827
1/7/2022	0.140995	0.325110	0.105147

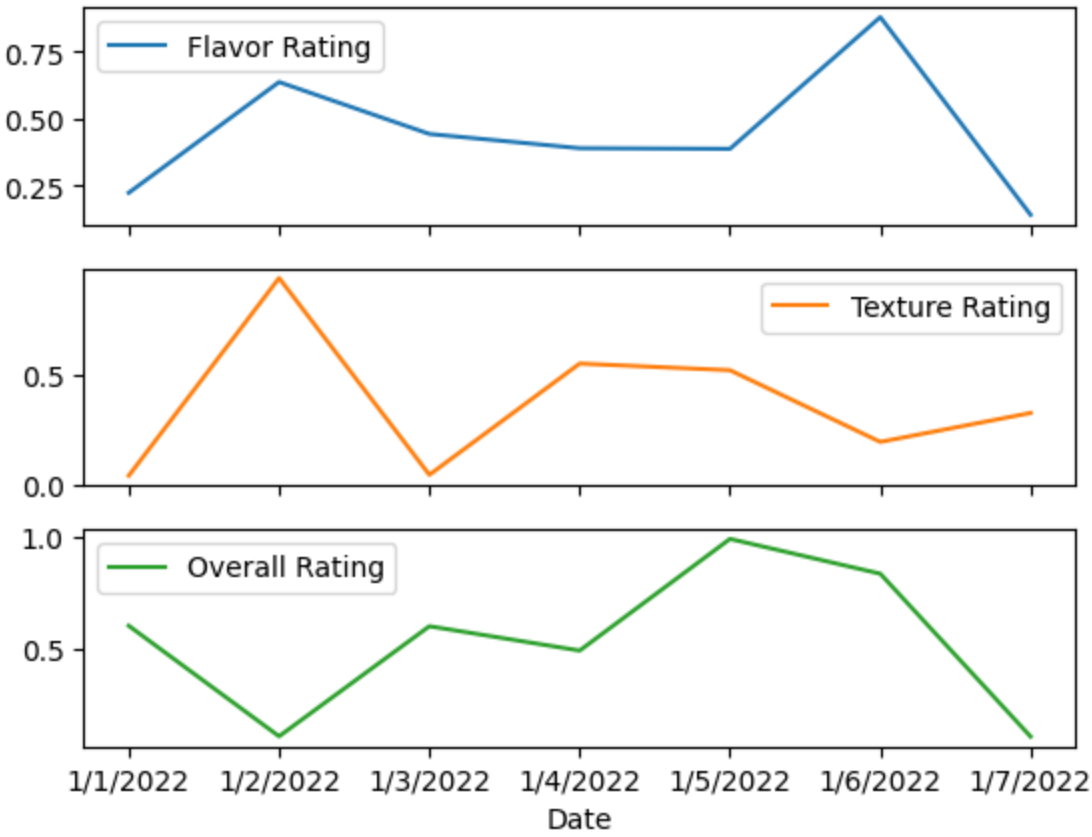
In [ ]:
```
df.plot(kind = "line", title = "Ice Cream Ratings", xlabel = "Daily Ratings", ylabe
```

Out[ ]:
```
<Axes: title={'center': 'Ice Cream Ratings'}, xlabel='Daily Ratings', ylabel='Scor
es'>
```



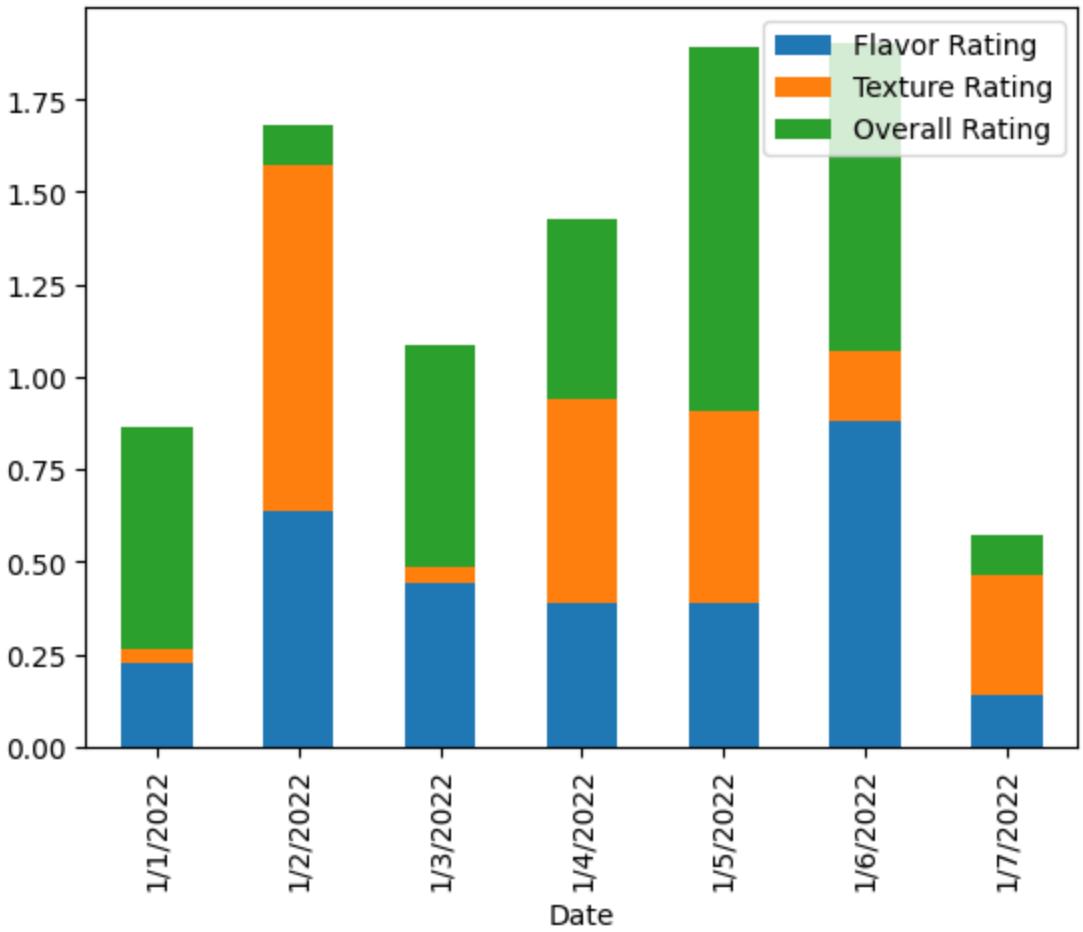
In [ ]:
```
df.plot(kind = "line", subplots = True)
```

Out[ ]:
```
array([<Axes: xlabel='Date'>, <Axes: xlabel='Date'>,
       <Axes: xlabel='Date'>], dtype=object)
```



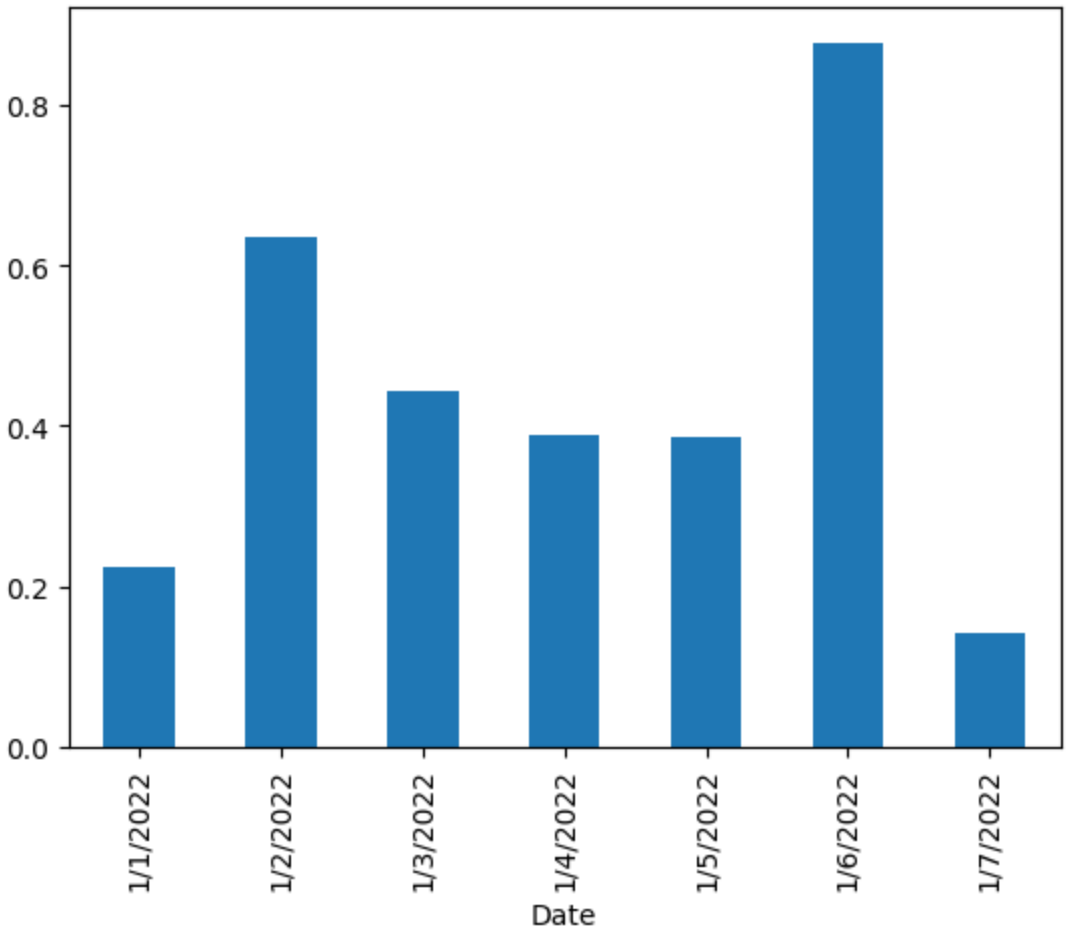
In [ ]:
```
df.plot(kind = "bar", stacked = True)
```

Out[ ]:
```
<Axes: xlabel='Date'>
```



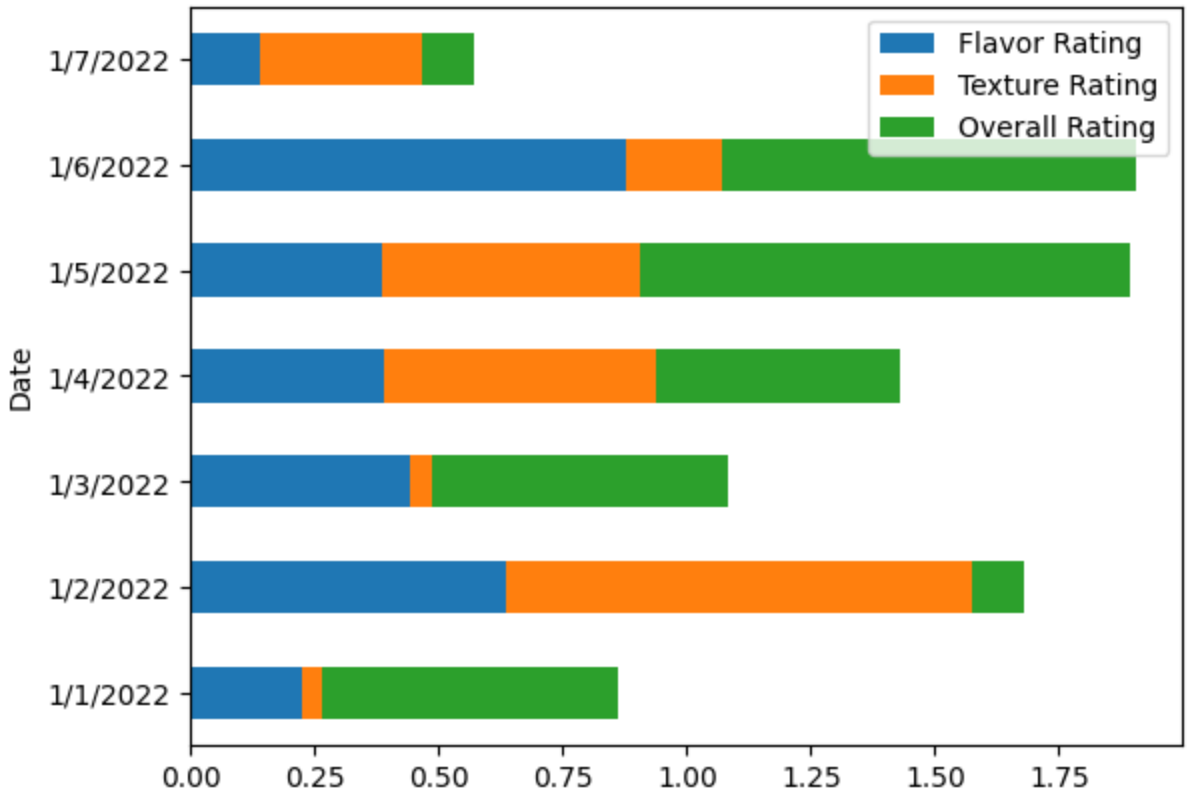
In [ ]:
```
df["Flavor Rating"].plot(kind = "bar", stacked = True)
```

Out[ ]:
```
<Axes: xlabel='Date'>
```



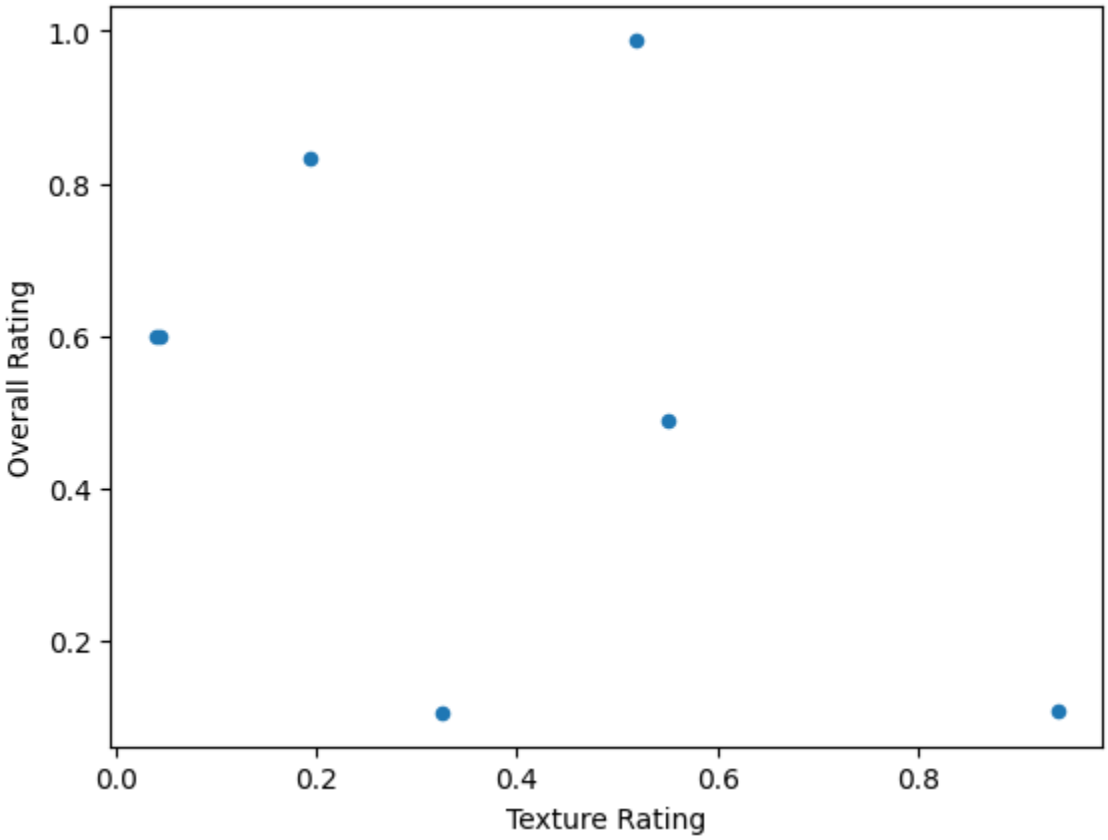
In [ ]:
```
df.plot.barh(stacked = True)
```

Out[ ]: <Axes: ylabel='Date'>



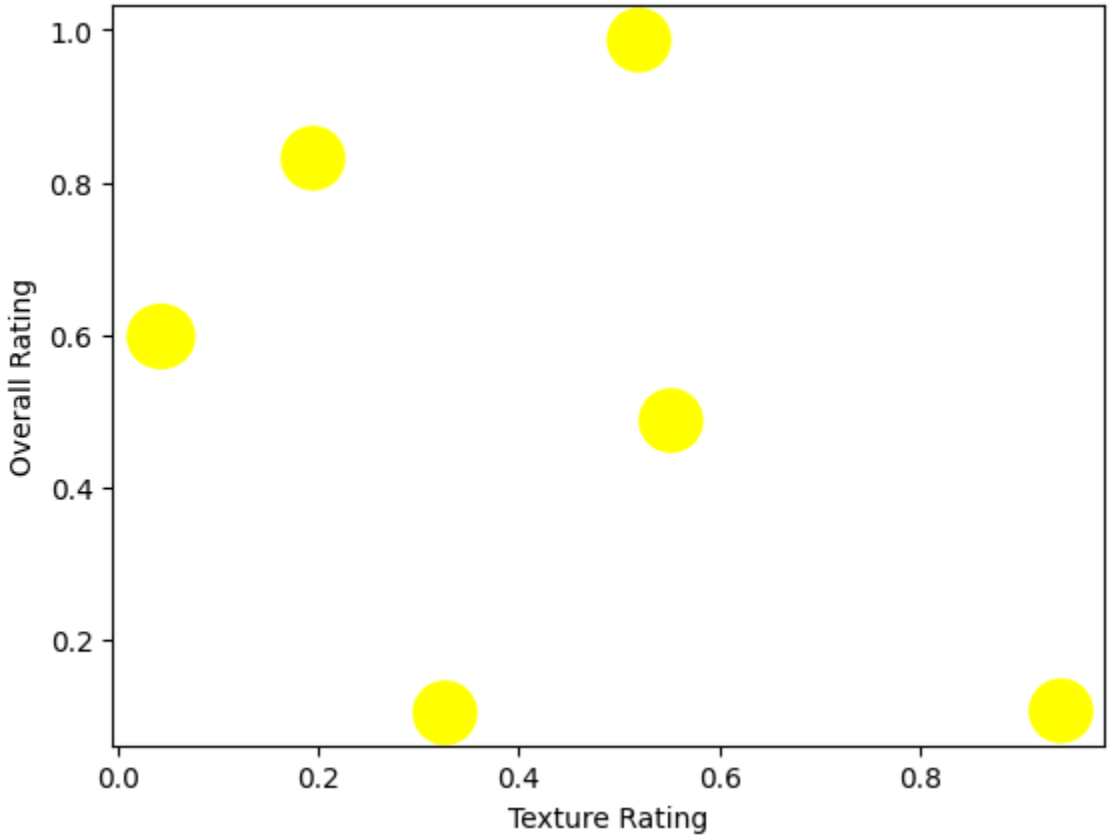
In [ ]:
```
df.plot.scatter(x = "Texture Rating", y = "Overall Rating")
```

Out[ ]:
```
<Axes: xlabel='Texture Rating', ylabel='Overall Rating'>
```



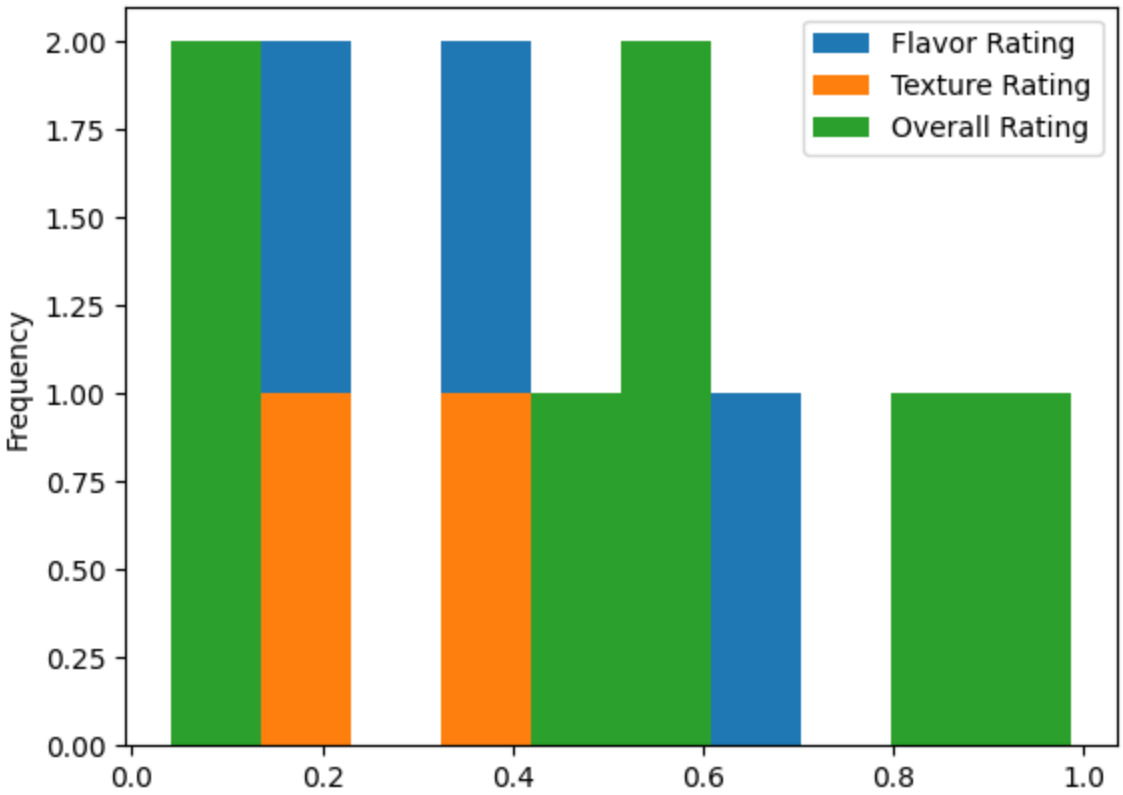
In [ ]:
```
df.plot.scatter(x = "Texture Rating", y = "Overall Rating", s = 500, c = "Yellow")
```

Out[ ]:
```
<Axes: xlabel='Texture Rating', ylabel='Overall Rating'>
```



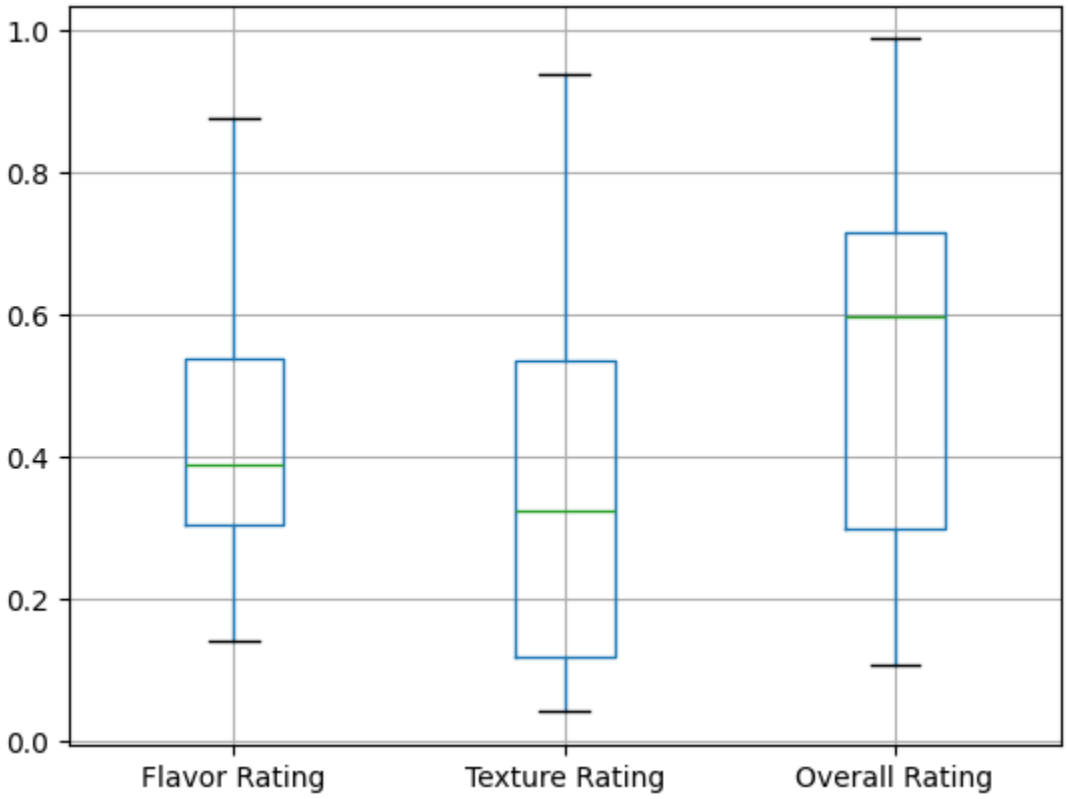
In [ ]:
```
df.plot.hist(bins = 10)
```

Out[ ]:
```
<Axes: ylabel='Frequency'>
```



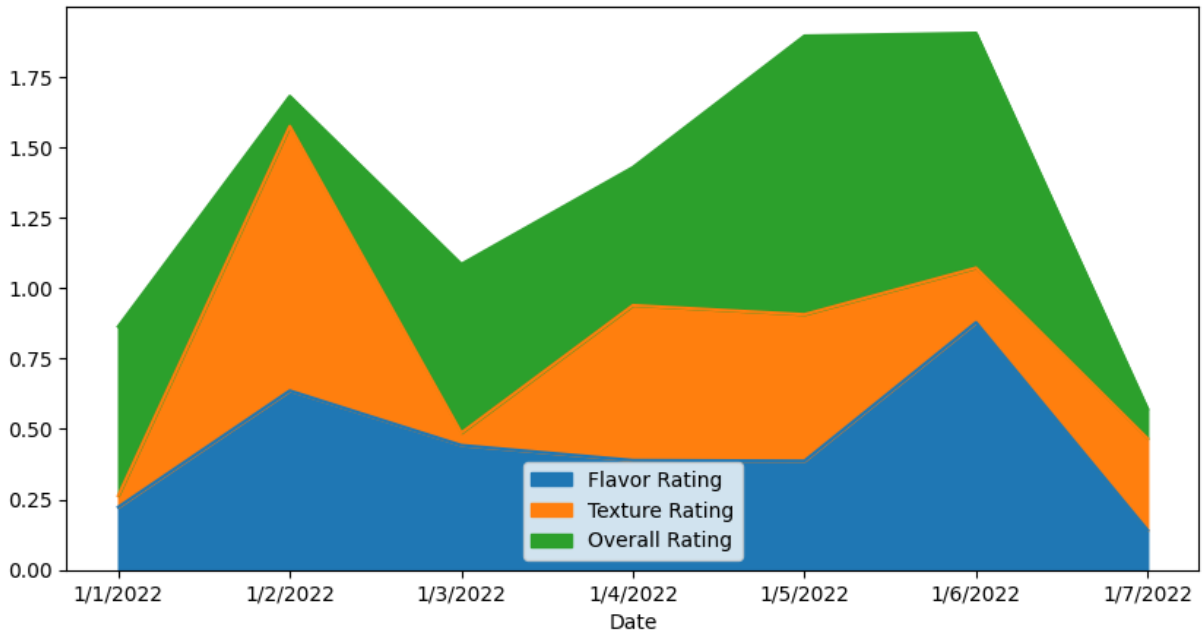
In [ ]:
```
df.boxplot()
```

Out[ ]: <Axes: >



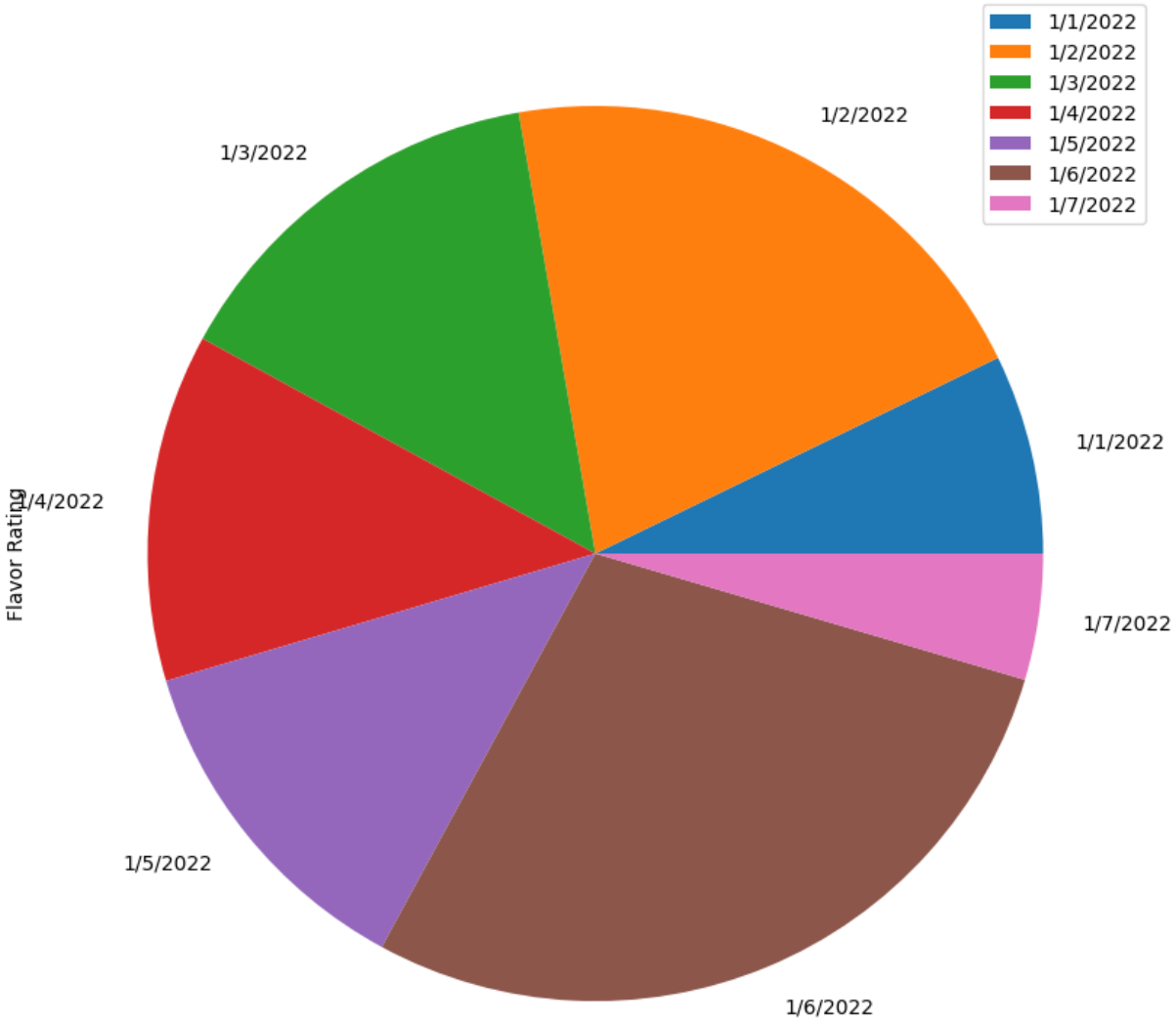
In [ ]:
```
df.plot.area(figsize = (10,5))
```

Out[ ]: <Axes: xlabel='Date'>



In [ ]:
```
df.plot.pie(y = "Flavor Rating", figsize = (10,10))
```

Out[ ]: <Axes: ylabel='Flavor Rating'>



In [ ]:
```
# different style of graphs
print(plt.style.available)
plt.style.use("classic")
```

```
['Solarize_Light2', '_classic_test_patch', '_mpl-gallery', '_mpl-gallery-nogrid', 'b
mh', 'classic', 'dark_background', 'fast', 'fivethirtyeight', 'ggplot', 'grayscale',
'seaborn-v0_8', 'seaborn-v0_8-bright', 'seaborn-v0_8-colorblind', 'seaborn-v0_8-dar
k', 'seaborn-v0_8-dark-palette', 'seaborn-v0_8-darkgrid', 'seaborn-v0_8-deep', 'seab
orn-v0_8-muted', 'seaborn-v0_8-notebook', 'seaborn-v0_8-paper', 'seaborn-v0_8-paste
l', 'seaborn-v0_8-poster', 'seaborn-v0_8-talk', 'seaborn-v0_8-ticks', 'seaborn-v0_8-
white', 'seaborn-v0_8-whitegrid', 'tableau-colorblind10']
```