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M4 Screenshots

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JelinekHandsOnPart1.py

```python
import pandas as pd

# read all the csv files
aapl_df=pd.read_csv('aapl.csv')
amzn_df=pd.read_csv('amzn.csv')
fb_df=pd.read_csv('fb.csv')
goog_df=pd.read_csv('goog.csv')
nflx_df=pd.read_csv('nflx.csv')

# add tickers
aapl_df['ticker'] = 'AAPL'
amzn_df['ticker'] = 'AMZN'
fb_df['ticker'] = 'FB'
goog_df['ticker'] = 'GOOG'
nflx_df['ticker'] = 'NFLX'

# combine the dataframes
faang_df = pd.concat([aapl_df, amzn_df, fb_df, goog_df,
nflx_df])

# save to faang.csv file
faang_df.to_csv('faang.csv', index=False)
```

JelinekHandsOnPart2.py

```python
import pandas as pd

# read csv file
faang_df = pd.read_csv('faang.csv')

# convert data column to datetime
faang_df['date'] = pd.to_datetime(faang_df['date'])

# convert volume column to integers
faang_df['volume'] = faang_df['volume'].astype(int)

# sort by date and ticker
faang_df.sort_values(by=['date', 'ticker'], inplace=True)

# find rows with lowest volume
lowest_volume_rows = faang_df.nsmallest(7, 'volume')
print(lowest_volume_rows)

# melt dataframe to long format
faang_long_df = pd.melt(faang_df, id_vars=['date', 'ticker'],
value_vars=['open', 'high', 'low', 'close', 'volume'],
var_name='variable', value_name='value')
print(faang_df.head)
```

```
levue/DataWranglingForDataScience/Module4/JelinekHandsOnPart2.py
          date         high          low  ...        close  volume  ticker
879 2018-07-03  1135.819946  1100.020020  ...  1102.890015  679000    GOOG
979 2018-11-23  1037.589966  1022.398987  ...  1023.880005  691500    GOOG
852 2018-05-24  1080.469971  1066.150024  ...  1079.239990  766800    GOOG
883 2018-07-10  1159.589966  1149.589966  ...  1152.839966  798400    GOOG
905 2018-08-09  1255.541992  1246.010010  ...  1249.099976  848600    GOOG
912 2018-08-20  1211.000000  1194.625977  ...  1207.770020  870800    GOOG
914 2018-08-22  1211.839966  1199.000000  ...  1207.329956  887400    GOOG
```

```
<bound method NDFrame.head of            date         high          low  ...
       close     volume  ticker
0    2018-01-02    43.075001    42.314999  ...    43.064999  102223600    AAP
L
251  2018-01-02  1190.000000  1170.510010  ...  1189.010010    2694500    AMZ
N
502  2018-01-02   181.580002   177.550003  ...   181.419998   18151900      F
B
753  2018-01-02  1066.939941  1045.229980  ...  1065.000000    1237600    GOO
G
1004 2018-01-02   201.649994   195.419998  ...   201.070007   10966900    NFL
X
...         ...          ...          ...  ...          ...        ...     ..
.
250  2018-12-31    39.840000    39.119999  ...    39.435001  140014000    AAPL
```

5.) If there was a glitch in how data was recorded, I would try to fix the records through coding. If that doesn't work, there may be a csv file online with the correct records that you can append with your current csv file.