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In [ ]: | ###necessary libraries
        import pandas as pd
        import glob
        import os
        from datetime import datetime, timezone
        import re
        import numpy as np
        import itertools
        from functools import reduce
        # file where csv files of flair analysis lies
        path flair = r'C:\Users\victo\Master Thesis\semanticanalysis\analysis with flair\pe
        ugeot\outcome using flair'
        all files flair = glob.glob(os.path.join(path flair, "*.csv"))
        # read files to pandas frame
        list of files flair = []
        for filename in all files flair:
            list_of_files_flair.append(pd.read_csv(filename,
                                                    sep=',',
        # Concatenate all content of files into one DataFrames
        concatenate list of files flair = pd.concat(list of files flair,
                                                     ignore index=True,
                                                     axis=0,
                                                     )
        # removing duplicates
        cleaned dataframe flair = concatenate list of files flair.sort values(by='url', asc
        ending=False)
        cleaned dataframe flair = cleaned dataframe flair.drop duplicates(subset=["url"], k
        eep='first', ignore index=True)
        print(cleaned dataframe flair)
        # file where csv files of vader analysis lies
        path vader = r'C:\Users\victo\Master Thesis\semanticanalysis\analysis with vader\pe
        ugeot\outcome using vader'
        all files vader = glob.glob(os.path.join(path vader, "*.csv"))
        # read files to pandas frame
        list_of_files_vader = []
        for filename in all files vader:
            list of files vader.append(pd.read csv(filename,
                                                    sep=',',
                                                    )
        # Concatenate all content of files into one DataFrames
        concatenate_list_of_files_vader = pd.concat(list_of_files_vader,
                                                    ignore_index=True,
                                                     axis=0,
                                                     )
        # removing duplicates
        cleaned dataframe vader = concatenate list of files vader.sort values(by='url', asc
        ending=False)
        cleaned dataframe vader = cleaned dataframe vader.drop duplicates(subset=["url"], k
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eep='first', ignore index=True)
print(cleaned dataframe vader)
# file where csv files of textblob analysis lies
path textblob = r'C:\Users\victo\Master Thesis\semanticanalysis\analysis with textb
lob\peugeot\outcome_using_texblob'
all_files_textblob = glob.glob(os.path.join(path_textblob, "*.csv"))
# read files to pandas frame
list_of_files_textblob = []
for filename in all files textblob:
    list of files textblob.append(pd.read csv(filename,
                                              sep=',',
# Concatenate all content of files into one DataFrames
concatenate list of files textblob = pd.concat(list of files textblob,
                                               ignore index=True,
                                               axis=0,
# removing duplicates
cleaned dataframe textblob = concatenate list of files textblob.sort values(by='url
', ascending=False)
cleaned_dataframe_textblob = cleaned_dataframe_textblob.drop_duplicates(subset=["ur
l"], keep='first', ignore index=True)
print(cleaned dataframe textblob)
##merging files together
merged_df = pd.merge(cleaned_dataframe_flair, cleaned_dataframe_vader, on=['url'])
merged_df = pd.merge(merged_df, cleaned_dataframe_textblob, on=['url'])
merged df['formatted date'] = pd.to datetime(merged df['formatted date'])
merged_df.rename(columns={'formatted date': 'formatteddate'}, inplace=True)
path stockprices = r'C:\Users\victo\Master Thesis\stockprice data\peugeot\minutely
stockpricefiles with return'
for file in glob.iglob(path_stockprices + '\*.csv'):
    date = re.search('\d{4}-\d{2}-\d{2}', file)
    date = date.group()
    df_daily_stock_prices = pd.read_csv(file,
                                        sep=',',
    df daily stock prices['Date'] = pd.DatetimeIndex(pd.to datetime(df daily stock
prices['Date'])).tz localize('GMT').tz_convert('Europe/Berlin')
    df daily stock prices['Date'] = pd.to datetime(df daily stock prices['Date'].d
t.strftime('%Y-%m-%d %H:%M:%S'))
    df_stock_prices_semantics = df_daily_stock_prices.merge(merged_df,
                                                            left on='Date',
                                                             right on='formatteddate
                                                             how='left')
    df stock prices semantics.to csv(r'C:\Users\victo\Master Thesis\merging data\pe
ugeot\minutely\merged files\peugeotprices with semantics ' + date + '.csv', index=F
    print('File of ' + date + ' has been saved!')
```

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