```
In [ ]: | ###necessary libaries###
        import numpy as np
        import pandas as pd
        import seaborn as sns
        import glob
        import os
        from datetime import datetime
        import matplotlib.pyplot as plt
        import re
        # file where csv files lies
        path = r'C:\Users\victo\Master_Thesis\merging_data\renault\hourly\merged_files'
        all_files = glob.glob(os.path.join(path, "*.csv"))
        # read files to pandas frame
        list_of_files = []
        for filename in all files:
            list_of_files.append(pd.read_csv(filename,
                                              sep=',',
        # Concatenate all content of files into one DataFrames
        concatenate dataframe = pd.concat(list of files,
                                               ignore index=True,
                                               axis=0,
        #print(concatenate dataframe)
        #calculating correlation price vs semantics
        new df price = concatenate_dataframe[['return_one_hot_encoded',
                                                'flair sentiment header score',
                                                'flair sentiment content score',
                                                'compound_vader_header',
                                               'compound_vader_articel_content',
                                               'polarity_textblob_sentiment_header',
                                                'polarity textblob sentiment content']]
        new_df_price[['return_one_hot_encoded',
                       'flair_sentiment_header_score',
                       'flair_sentiment_content_score',
                       'compound_vader_header',
                       'compound_vader_articel_content',
                       'polarity_textblob_sentiment_header',
                       'polarity_textblob_sentiment_content']] = new_df_price[['return_one_h
        ot encoded',
                                                                                 'flair sentim
        ent_header_score',
                                                                                 'flair_sentim
        ent content score',
                                                                                 'compound vad
        er header',
                                                                                 'compound_vad
        er articel content',
                                                                                 'polarity tex
        tblob_sentiment_header',
                                                                                 'polarity_tex
        tblob sentiment content']].fillna(0)
        print(new df price)
```

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```
corr price = new df price.corr()
corr price.fillna(0)
print(corr price)
corr price.to excel(r'C:\Users\victo\Master Thesis\correlation\renault\hourly\corre
lation\renault correlation price with semantics.xlsx')
#calculating correlation volume vs semantics
new_df_volume = concatenate_dataframe[['volume_one_hot_encoded',
                                        'flair_sentiment_header_score',
                                        'flair_sentiment_content_score',
                                        'compound_vader_header',
                                        'compound_vader_articel_content',
                                        'polarity_textblob_sentiment_header',
                                        'polarity textblob sentiment content']]
new_df_volume[['volume_one_hot_encoded',
               'flair_sentiment_header_score',
               'flair_sentiment_content_score',
               'compound_vader_header',
               'compound_vader_articel_content',
               'polarity textblob sentiment header',
               'polarity textblob sentiment content']] = new df volume[['volume one
hot encoded',
                                                                          'flair_sent
iment header score',
                                                                          'flair_sent
iment content score',
                                                                          'compound v
ader header',
                                                                          'compound v
ader articel content',
                                                                          'polarity_t
extblob_sentiment_header',
                                                                          'polarity_t
extblob sentiment content']].fillna(0)
print(new_df_volume)
corr_volume = new_df_volume.corr()
corr volume.fillna(0)
print(corr volume)
corr_volume.to_excel(r'C:\Users\victo\Master_Thesis\correlation\renault\hourly\corr
elation\renault_correlation_volume_with_semantics.xlsx')
```

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