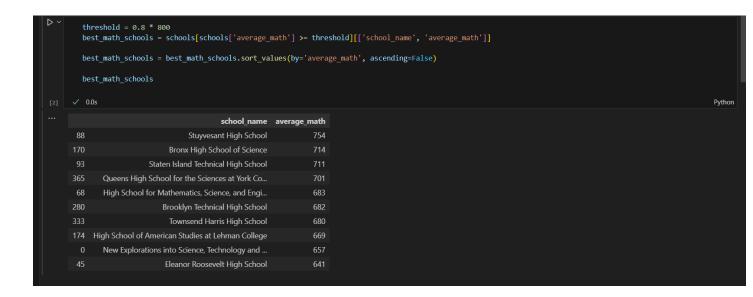
Project: NYC schools

Name: Muhammad Anas

[1]		<pre>import pandas as pd schools = pd.read_csv("schools.csv") schools.head() 8.6s</pre>						
		school_name	borough	building_code	average_math	average_reading	average_writing	percent_tested
		New Explorations into Science, Technology and	Manhattan	M022	657	601	601	NaN
		Essex Street Academy	Manhattan	M445	395	411	387	78.9
		Lower Manhattan Arts Academy	Manhattan	M445	418	428	415	65.1
		High School for Dual Language and Asian Studies	Manhattan	M445	613	453	463	95.9
	4	Henry Street School for International Studies	Manhattan	M056	410	406	381	59.7



```
schools['total_SAT'] = schools['average_math'] + schools['average_reading'] + schools['average_writing']
   top_10_schools = schools[['school_name', 'total_SAT']].sort_values(by='total_SAT', ascending=False).head(10)
   top_10_schools
✓ 0.0s
                                                                                                                                                                         Python
                                       school_name total_SAT
                               Stuyvesant High School
                         Bronx High School of Science
                    Staten Island Technical High School
174 High School of American Studies at Lehman College
                         Townsend Harris High School
        Queens High School for the Sciences at York Co...
                        Bard High School Early College
                       Brooklyn Technical High School
                        Eleanor Roosevelt High School
        High School for Mathematics, Science, and Engi...
```

```
borough_stats = schools.groupby('borough').agg(
           num schools=('school name', 'count'),
average_SAT=('total_SAT', 'mean'),
std_SAT=('total_SAT', 'std')
     ).reset_index()
     largest_std_dev = borough_stats.loc[borough_stats['std_SAT'].idxmax()]
     largest_std_dev_df = pd.DataFrame({
           'borough': [largest_std_dev['borough']],
'num_schools': [largest_std_dev['num_schools']],
'average_SAT': [round(largest_std_dev['average_SAT'], 2)],
'std_SAT': [round(largest_std_dev['std_SAT'], 2)]
     largest_std_dev
borough
                         Manhattan
num schools
                                   89
                      1340.134831
average_SAT
std SAT
                        230.29414
Name: 2, dtype: object
```