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In [1]: import pandas as pd
        import numpy as np
In [2]: N = 10
        data = pd.DataFrame(np.random.uniform(1,9,(N,2)), columns=['A', 'B'])
        data1 = data.copy()
        data2 = data.copy()
        %time data1 = data.query('A > 4')
        %time data2 = data[data['A'] > 4]
        CPU times: user 9.29 ms, sys: 3.84 ms, total: 13.1 ms
        Wall time: 11.7 ms
        CPU times: user 681 \mus, sys: 0 ns, total: 681 \mus
        Wall time: 637 \mus
In [3]: N = 1000
        data = pd.DataFrame(np.random.uniform(1,9,(N,2)), columns=['A', 'B'])
        data1 = data.copy()
        data2 = data.copy()
        %time data1 = data.query('A > 4')
        %time data2 = data[data['A'] > 4]
        CPU times: user 988 \mus, sys: 2.53 ms, total: 3.52 ms
        Wall time: 2.64 ms
        CPU times: user 1.64 ms, sys: 0 ns, total: 1.64 ms
        Wall time: 1.18 ms
In [4]: N = 100000
        data = pd.DataFrame(np.random.uniform(1,9,(N,2)), columns=['A', 'B'])
        data1 = data.copy()
        data2 = data.copy()
        %time data1 = data.query('A > 4')
        %time data2 = data[data['A'] > 4]
        CPU times: user 5.78 ms, sys: 2.95 ms, total: 8.73 ms
        Wall time: 8.24 ms
        CPU times: user 3.11 ms, sys: 781 \mus, total: 3.89 ms
        Wall time: 3.45 ms
In [5]: N = 10000000
        data = pd.DataFrame(np.random.uniform(1,9,(N,2)), columns=['A', 'B'])
        data1 = data.copy()
        data2 = data.copy()
        %time data1 = data.query('A > 4')
        %time data2 = data[data['A'] > 4]
        CPU times: user 448 ms, sys: 416 ms, total: 864 ms
        Wall time: 568 ms
        CPU times: user 218 ms, sys: 173 ms, total: 391 ms
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Wall time: 390 ms