

data-pipelining-with-polygon

August 21, 2025

1 Data Pipelining With Polygon

1.1 Python Imports

```
[1]: # Standard Library
import datetime
import io
import os
import random
import sys
import warnings

from datetime import datetime, timedelta
from pathlib import Path

# Data Handling
import numpy as np
import pandas as pd

# Data Visualization
import matplotlib.dates as mdates
import matplotlib.pyplot as plt
import matplotlib.ticker as mtick
import seaborn as sns
from matplotlib.ticker import FormatStrFormatter, FuncFormatter, MultipleLocator

# Data Sources
import yfinance as yf

# Statistical Analysis
import statsmodels.api as sm

# Machine Learning
from sklearn.decomposition import PCA
from sklearn.preprocessing import StandardScaler

# Suppress warnings
warnings.filterwarnings("ignore")
```

1.2 Add Directories To Path

```
[2]: # Add the source subdirectory to the system path to allow import config from settings.py
current_directory = Path(os.getcwd())
website_base_directory = current_directory.parent.parent.parent
src_directory = website_base_directory / "src"
sys.path.append(str(src_directory)) if str(src_directory) not in sys.path else None

# Import settings.py
from settings import config

# Add configured directories from config to path
SOURCE_DIR = config("SOURCE_DIR")
sys.path.append(str(Path(SOURCE_DIR))) if str(Path(SOURCE_DIR)) not in sys.path else None

# Add other configured directories
BASE_DIR = config("BASE_DIR")
CONTENT_DIR = config("CONTENT_DIR")
POSTS_DIR = config("POSTS_DIR")
PAGES_DIR = config("PAGES_DIR")
PUBLIC_DIR = config("PUBLIC_DIR")
SOURCE_DIR = config("SOURCE_DIR")
DATA_DIR = config("DATA_DIR")
DATA_MANUAL_DIR = config("DATA_MANUAL_DIR")

# Print system path
for i, path in enumerate(sys.path):
    print(f"{i}: {path}")
```

```
0: /usr/lib/python313.zip
1: /usr/lib/python3.13
2: /usr/lib/python3.13/lib-dynload
3:
4: /home/jared/python-virtual-envs/general_313/lib/python3.13/site-packages
5: /home/jared/Cloud_Storage/Dropbox/Websites/jaredszajkowski.github.io/src
```

1.3 Track Index Dependencies

```
[3]: # Create file to track markdown dependencies
dep_file = Path("index_dep.txt")
dep_file.write_text("")
```

```
[3]: 0
```

1.4 Python Functions

```
[4]: from export_track_md_deps import export_track_md_deps
from polygon_fetch_full_history import polygon_fetch_full_history
from polygon_pull_data import polygon_pull_data
```

1.5 Function Usage

1.5.1 Polygon Fetch Full History

```
[5]: from load_api_keys import load_api_keys
from polygon import RESTClient

# Load API keys from the environment
api_keys = load_api_keys()

# Get the environment variable for where data is stored
DATA_DIR = config("DATA_DIR")

# Open client connection
client = RESTClient(api_key=api_keys["POLYGON_KEY"])

# Create an empty DataFrame
df = pd.DataFrame({
    'Date': pd.Series(dtype="datetime64[ns]"),
    'open': pd.Series(dtype="float64"),
    'high': pd.Series(dtype="float64"),
    'low': pd.Series(dtype="float64"),
    'close': pd.Series(dtype="float64"),
    'volume': pd.Series(dtype="float64"),
    'vwap': pd.Series(dtype="float64"),
    'transactions': pd.Series(dtype="int64"),
    'otc': pd.Series(dtype="object")
})

# Example usage - minute
df = polygon_fetch_full_history(
    client=client,
    ticker="AMZN",
    timespan="day",
    multiplier=1,
    adjusted=True,
    full_history_df=df,
    current_start=datetime(2025, 1, 1),
    free_tier=True,
    verbose=True,
)
```

Pulling day data for 2025-01-01 00:00:00 thru 2025-03-02 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2025-01-02 05:00:00	222.030	225.1500	218.19	220.22	33956579.0	
1	2025-01-03 05:00:00	222.505	225.3600	221.62	224.19	27515606.0	
2	2025-01-06 05:00:00	226.780	228.8350	224.84	227.61	31849831.0	
3	2025-01-07 05:00:00	227.900	228.3810	221.46	222.11	28084164.0	
4	2025-01-08 05:00:00	223.185	223.5200	220.20	222.13	25033292.0	
5	2025-01-10 05:00:00	221.460	221.7100	216.50	218.94	36811525.0	
6	2025-01-13 05:00:00	218.060	219.4000	216.47	218.46	27262655.0	
7	2025-01-14 05:00:00	220.440	221.8200	216.20	217.76	24711650.0	
8	2025-01-15 05:00:00	222.830	223.5700	220.75	223.35	31291257.0	
9	2025-01-16 05:00:00	224.420	224.6500	220.31	220.66	24757276.0	
10	2025-01-17 05:00:00	225.840	226.5100	223.08	225.94	42370123.0	
11	2025-01-21 05:00:00	228.900	231.7800	226.94	230.71	39951456.0	
12	2025-01-22 05:00:00	232.020	235.4400	231.19	235.01	41448217.0	
13	2025-01-23 05:00:00	234.100	235.5200	231.51	235.42	26404364.0	
14	2025-01-24 05:00:00	234.500	236.4000	232.93	234.85	25890738.0	
15	2025-01-27 05:00:00	226.210	235.6100	225.86	235.42	49428332.0	
16	2025-01-28 05:00:00	234.290	241.7700	233.98	238.15	41587188.0	
17	2025-01-29 05:00:00	239.015	240.3900	236.15	237.07	26091716.0	
18	2025-01-30 05:00:00	237.140	237.9500	232.22	234.64	32020728.0	
19	2025-01-31 05:00:00	236.500	240.2900	236.41	237.68	36162377.0	
20	2025-02-03 05:00:00	234.060	239.2500	232.90	237.42	37285868.0	
21	2025-02-04 05:00:00	239.010	242.5200	238.03	242.06	29713812.0	
22	2025-02-05 05:00:00	237.020	238.3200	235.20	236.17	38832042.0	
23	2025-02-06 05:00:00	238.010	239.6599	236.01	238.83	60897095.0	
24	2025-02-07 05:00:00	232.500	234.8100	228.06	229.15	77539276.0	
25	2025-02-10 05:00:00	230.545	233.9200	229.20	233.14	35419926.0	
26	2025-02-11 05:00:00	231.920	233.4400	230.13	232.76	23713726.0	
27	2025-02-12 05:00:00	230.460	231.1800	228.16	228.93	32285249.0	
28	2025-02-13 05:00:00	228.850	230.4200	227.52	230.37	31346512.0	
29	2025-02-14 05:00:00	229.200	229.8900	227.23	228.68	27031084.0	
30	2025-02-18 05:00:00	228.820	229.3000	223.72	226.65	42975133.0	
31	2025-02-19 05:00:00	225.520	226.8300	223.71	226.63	28566709.0	
32	2025-02-20 05:00:00	224.775	225.1300	221.81	222.88	30001665.0	
33	2025-02-21 05:00:00	223.280	223.3100	214.74	216.58	55323850.0	
34	2025-02-24 05:00:00	217.450	217.7150	212.42	212.71	42387585.0	
35	2025-02-25 05:00:00	211.630	213.3400	204.16	212.80	58957977.0	
36	2025-02-26 05:00:00	214.940	218.1600	213.09	214.35	39120603.0	
37	2025-02-27 05:00:00	218.350	219.9700	208.37	208.74	40548571.0	
38	2025-02-28 05:00:00	208.650	212.6200	206.99	212.28	51771737.0	

	vwap	transactions	otc
0	221.2745	449631	None
1	223.7050	346976	None

2	227.0921	410686	None
3	223.4033	379570	None
4	222.0414	325539	None
5	218.8640	493840	None
6	218.1426	373519	None
7	218.6245	332022	None
8	222.6690	353985	None
9	221.8942	313323	None
10	225.3927	385914	None
11	230.0901	552447	None
12	234.0950	512233	None
13	234.2435	365153	None
14	234.4587	349378	None
15	231.8188	661486	None
16	238.6365	542344	None
17	237.4141	384889	None
18	235.0230	428122	None
19	238.2019	435388	None
20	236.6088	551855	None
21	241.1698	412003	None
22	236.5720	552144	None
23	235.7527	803119	None
24	230.4527	943441	None
25	232.4151	473182	None
26	232.1101	329473	None
27	229.6079	400325	None
28	229.3312	408846	None
29	228.6543	375369	None
30	225.8082	600702	None
31	225.3773	391423	None
32	222.9351	447333	None
33	217.7122	774966	None
34	214.0526	586136	None
35	209.6983	800750	None
36	215.4418	508442	None
37	212.3725	558788	None
38	210.4030	540930	None

Combined data:

	Date	open	high	low	close	volume \
0	2025-01-02 05:00:00	222.030	225.1500	218.19	220.22	33956579.0
1	2025-01-03 05:00:00	222.505	225.3600	221.62	224.19	27515606.0
2	2025-01-06 05:00:00	226.780	228.8350	224.84	227.61	31849831.0
3	2025-01-07 05:00:00	227.900	228.3810	221.46	222.11	28084164.0
4	2025-01-08 05:00:00	223.185	223.5200	220.20	222.13	25033292.0
5	2025-01-10 05:00:00	221.460	221.7100	216.50	218.94	36811525.0
6	2025-01-13 05:00:00	218.060	219.4000	216.47	218.46	27262655.0
7	2025-01-14 05:00:00	220.440	221.8200	216.20	217.76	24711650.0
8	2025-01-15 05:00:00	222.830	223.5700	220.75	223.35	31291257.0

9	2025-01-16	05:00:00	224.420	224.6500	220.31	220.66	24757276.0
10	2025-01-17	05:00:00	225.840	226.5100	223.08	225.94	42370123.0
11	2025-01-21	05:00:00	228.900	231.7800	226.94	230.71	39951456.0
12	2025-01-22	05:00:00	232.020	235.4400	231.19	235.01	41448217.0
13	2025-01-23	05:00:00	234.100	235.5200	231.51	235.42	26404364.0
14	2025-01-24	05:00:00	234.500	236.4000	232.93	234.85	25890738.0
15	2025-01-27	05:00:00	226.210	235.6100	225.86	235.42	49428332.0
16	2025-01-28	05:00:00	234.290	241.7700	233.98	238.15	41587188.0
17	2025-01-29	05:00:00	239.015	240.3900	236.15	237.07	26091716.0
18	2025-01-30	05:00:00	237.140	237.9500	232.22	234.64	32020728.0
19	2025-01-31	05:00:00	236.500	240.2900	236.41	237.68	36162377.0
20	2025-02-03	05:00:00	234.060	239.2500	232.90	237.42	37285868.0
21	2025-02-04	05:00:00	239.010	242.5200	238.03	242.06	29713812.0
22	2025-02-05	05:00:00	237.020	238.3200	235.20	236.17	38832042.0
23	2025-02-06	05:00:00	238.010	239.6599	236.01	238.83	60897095.0
24	2025-02-07	05:00:00	232.500	234.8100	228.06	229.15	77539276.0
25	2025-02-10	05:00:00	230.545	233.9200	229.20	233.14	35419926.0
26	2025-02-11	05:00:00	231.920	233.4400	230.13	232.76	23713726.0
27	2025-02-12	05:00:00	230.460	231.1800	228.16	228.93	32285249.0
28	2025-02-13	05:00:00	228.850	230.4200	227.52	230.37	31346512.0
29	2025-02-14	05:00:00	229.200	229.8900	227.23	228.68	27031084.0
30	2025-02-18	05:00:00	228.820	229.3000	223.72	226.65	42975133.0
31	2025-02-19	05:00:00	225.520	226.8300	223.71	226.63	28566709.0
32	2025-02-20	05:00:00	224.775	225.1300	221.81	222.88	30001665.0
33	2025-02-21	05:00:00	223.280	223.3100	214.74	216.58	55323850.0
34	2025-02-24	05:00:00	217.450	217.7150	212.42	212.71	42387585.0
35	2025-02-25	05:00:00	211.630	213.3400	204.16	212.80	58957977.0
36	2025-02-26	05:00:00	214.940	218.1600	213.09	214.35	39120603.0
37	2025-02-27	05:00:00	218.350	219.9700	208.37	208.74	40548571.0
38	2025-02-28	05:00:00	208.650	212.6200	206.99	212.28	51771737.0

	vwap	transactions	otc
0	221.2745	449631	None
1	223.7050	346976	None
2	227.0921	410686	None
3	223.4033	379570	None
4	222.0414	325539	None
5	218.8640	493840	None
6	218.1426	373519	None
7	218.6245	332022	None
8	222.6690	353985	None
9	221.8942	313323	None
10	225.3927	385914	None
11	230.0901	552447	None
12	234.0950	512233	None
13	234.2435	365153	None
14	234.4587	349378	None
15	231.8188	661486	None

16	238.6365	542344	None
17	237.4141	384889	None
18	235.0230	428122	None
19	238.2019	435388	None
20	236.6088	551855	None
21	241.1698	412003	None
22	236.5720	552144	None
23	235.7527	803119	None
24	230.4527	943441	None
25	232.4151	473182	None
26	232.1101	329473	None
27	229.6079	400325	None
28	229.3312	408846	None
29	228.6543	375369	None
30	225.8082	600702	None
31	225.3773	391423	None
32	222.9351	447333	None
33	217.7122	774966	None
34	214.0526	586136	None
35	209.6983	800750	None
36	215.4418	508442	None
37	212.3725	558788	None
38	210.4030	540930	None

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-03-01 00:00:00 thru 2025-04-30 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2025-03-03 05:00:00	213.352	214.0100	202.5500	205.02	42948447.0
1	2025-03-04 05:00:00	200.110	206.8000	197.4320	203.80	60853084.0
2	2025-03-05 05:00:00	204.800	209.9800	203.2600	208.36	38610085.0
3	2025-03-06 05:00:00	204.400	205.7700	198.3015	200.70	49863755.0
4	2025-03-07 05:00:00	199.490	202.2653	192.5300	199.25	59802821.0
5	2025-03-10 04:00:00	195.600	196.7300	190.8500	194.54	62350926.0
6	2025-03-11 04:00:00	193.900	200.1800	193.4000	196.59	54002880.0
7	2025-03-12 04:00:00	200.720	201.5200	195.2900	198.89	43679284.0
8	2025-03-13 04:00:00	198.165	198.8799	191.8200	193.89	41270761.0
9	2025-03-14 04:00:00	197.410	198.6500	195.3200	197.95	38096663.0
10	2025-03-17 04:00:00	198.770	199.0000	194.3247	195.74	47341752.0
11	2025-03-18 04:00:00	192.520	194.0000	189.3800	192.82	40414867.0
12	2025-03-19 04:00:00	193.380	195.9650	191.9600	195.54	39442878.0
13	2025-03-20 04:00:00	193.070	199.3200	192.3000	194.95	38921113.0
14	2025-03-21 04:00:00	192.900	196.9900	192.5200	196.21	60056917.0
15	2025-03-24 04:00:00	200.000	203.6400	199.9500	203.26	41625365.0
16	2025-03-25 04:00:00	203.595	206.2100	203.2200	205.71	31171161.0
17	2025-03-26 04:00:00	205.835	206.0100	199.9250	201.13	32990973.0

18	2025-03-27	04:00:00	200.890	203.7900	199.2821	201.36	27317661.0
19	2025-03-28	04:00:00	198.420	199.2600	191.8810	192.72	52548226.0
20	2025-03-31	04:00:00	188.190	191.3300	184.4000	190.26	63547558.0
21	2025-04-01	04:00:00	187.860	193.9300	187.2000	192.17	41267315.0
22	2025-04-02	04:00:00	187.660	198.3400	187.6600	196.01	53679198.0
23	2025-04-03	04:00:00	182.995	184.1300	176.9200	178.41	95553617.0
24	2025-04-04	04:00:00	167.145	178.1436	166.0000	171.00	123159359.0
25	2025-04-07	04:00:00	162.000	183.4099	161.3800	175.26	109327115.0
26	2025-04-08	04:00:00	185.230	185.9000	168.5700	170.66	87710360.0
27	2025-04-09	04:00:00	172.115	192.6500	169.9300	191.10	116804328.0
28	2025-04-10	04:00:00	185.440	186.8692	175.8518	181.22	68302045.0
29	2025-04-11	04:00:00	179.930	185.8600	178.0000	184.87	50594339.0
30	2025-04-14	04:00:00	186.840	187.4400	179.2300	182.12	48002540.0
31	2025-04-15	04:00:00	181.410	182.3500	177.9331	179.59	43641952.0
32	2025-04-16	04:00:00	176.290	179.1046	171.4100	174.33	51875316.0
33	2025-04-17	04:00:00	176.000	176.2100	172.0000	172.61	44726453.0
34	2025-04-21	04:00:00	169.600	169.6000	165.2850	167.32	48126111.0
35	2025-04-22	04:00:00	169.845	176.7800	169.3500	173.18	56607202.0
36	2025-04-23	04:00:00	183.450	187.3800	180.1900	180.60	63470149.0
37	2025-04-24	04:00:00	180.915	186.7400	180.1800	186.54	43763196.0
38	2025-04-25	04:00:00	187.620	189.9400	185.4900	188.99	36414330.0
39	2025-04-28	04:00:00	190.105	190.2200	184.8850	187.70	33224732.0
40	2025-04-29	04:00:00	183.990	188.0158	183.6800	187.39	41667255.0
41	2025-04-30	04:00:00	182.170	185.0500	178.8500	184.42	55176543.0

	vwap	transactions	otc
0	207.4103	666781	None
1	201.9283	872022	None
2	207.0552	514659	None
3	201.4563	688561	None
4	197.6619	785672	None
5	193.5839	902822	None
6	196.8215	668549	None
7	198.8820	573896	None
8	194.3326	588538	None
9	197.4359	470644	None
10	196.4612	568556	None
11	192.0851	554394	None
12	194.2885	445698	None
13	195.6360	455391	None
14	195.3015	394836	None
15	202.3699	515880	None
16	205.1037	402368	None
17	202.2164	450177	None
18	201.8553	363321	None
19	193.9820	678645	None
20	188.2800	769862	None
21	191.4704	528168	None

22	194.2870	710850	None
23	180.3426	1447903	None
24	173.2162	1529094	None
25	172.6690	1420152	None
26	176.4128	1146023	None
27	182.3345	1310706	None
28	181.6510	925662	None
29	182.6453	638386	None
30	182.9501	656762	None
31	180.0701	564759	None
32	174.8524	685436	None
33	173.5808	527949	None
34	166.9255	726774	None
35	173.2470	617509	None
36	183.1208	732657	None
37	184.8801	516092	None
38	187.9963	489570	None
39	187.4701	452721	None
40	186.2911	507603	None
41	182.7658	688982	None

Combined data:

		Date	open	high	low	close	volume \
0	2025-01-02	05:00:00	222.030	225.1500	218.190	220.22	33956579.0
1	2025-01-03	05:00:00	222.505	225.3600	221.620	224.19	27515606.0
2	2025-01-06	05:00:00	226.780	228.8350	224.840	227.61	31849831.0
3	2025-01-07	05:00:00	227.900	228.3810	221.460	222.11	28084164.0
4	2025-01-08	05:00:00	223.185	223.5200	220.200	222.13	25033292.0
..
76	2025-04-24	04:00:00	180.915	186.7400	180.180	186.54	43763196.0
77	2025-04-25	04:00:00	187.620	189.9400	185.490	188.99	36414330.0
78	2025-04-28	04:00:00	190.105	190.2200	184.885	187.70	33224732.0
79	2025-04-29	04:00:00	183.990	188.0158	183.680	187.39	41667255.0
80	2025-04-30	04:00:00	182.170	185.0500	178.850	184.42	55176543.0

	vwap	transactions	otc
0	221.2745	449631	None
1	223.7050	346976	None
2	227.0921	410686	None
3	223.4033	379570	None
4	222.0414	325539	None
..
76	184.8801	516092	None
77	187.9963	489570	None
78	187.4701	452721	None
79	186.2911	507603	None
80	182.7658	688982	None

[81 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-04-29 00:00:00 thru 2025-06-28 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2025-04-29 04:00:00	183.990	188.015800	183.6800	187.39	41667255.0	
1	2025-04-30 04:00:00	182.170	185.050000	178.8500	184.42	55176543.0	
2	2025-05-01 04:00:00	190.630	191.807112	187.5000	190.20	74265963.0	
3	2025-05-02 04:00:00	191.435	192.880000	186.4000	189.98	77903487.0	
4	2025-05-05 04:00:00	186.510	188.180000	185.5300	186.35	35217469.0	
5	2025-05-06 04:00:00	184.570	187.930000	183.8500	185.01	29314055.0	
6	2025-05-07 04:00:00	185.560	190.990000	185.0100	188.71	44002926.0	
7	2025-05-08 04:00:00	191.430	194.330000	188.8200	192.08	41043620.0	
8	2025-05-09 04:00:00	193.375	194.690000	191.1600	193.06	29663143.0	
9	2025-05-12 04:00:00	210.710	211.660000	205.7500	208.64	75205042.0	
10	2025-05-13 04:00:00	211.080	214.840000	210.1000	211.37	56193682.0	
11	2025-05-14 04:00:00	211.450	211.930000	208.8500	210.25	38492128.0	
12	2025-05-15 04:00:00	206.450	206.880000	202.6730	205.17	64347317.0	
13	2025-05-16 04:00:00	206.850	206.850000	204.3740	205.59	43318478.0	
14	2025-05-19 04:00:00	201.645	206.620000	201.2600	206.16	34314810.0	
15	2025-05-20 04:00:00	204.628	205.589900	202.6500	204.07	29470373.0	
16	2025-05-21 04:00:00	201.610	203.455000	200.0600	201.12	42460924.0	
17	2025-05-22 04:00:00	201.380	205.760000	200.1600	203.10	38938882.0	
18	2025-05-23 04:00:00	198.900	202.370000	197.8500	200.99	33393545.0	
19	2025-05-27 04:00:00	203.085	206.690000	202.1900	206.02	34892044.0	
20	2025-05-28 04:00:00	205.915	207.660000	204.4100	204.72	28549753.0	
21	2025-05-29 04:00:00	208.025	208.810000	204.2300	205.70	34700005.0	
22	2025-05-30 04:00:00	204.840	205.990000	201.6950	205.01	51679406.0	
23	2025-06-02 04:00:00	204.980	207.000000	202.6800	206.65	29113319.0	
24	2025-06-03 04:00:00	207.105	208.946900	205.0300	205.71	33139121.0	
25	2025-06-04 04:00:00	206.550	208.180000	205.1800	207.23	29915592.0	
26	2025-06-05 04:00:00	209.550	212.810000	207.5600	207.91	51979243.0	
27	2025-06-06 04:00:00	212.400	213.869900	210.5000	213.57	39832500.0	
28	2025-06-09 04:00:00	214.750	217.850000	212.8800	216.98	38102502.0	
29	2025-06-10 04:00:00	216.780	217.690000	214.1500	217.61	31303317.0	
30	2025-06-11 04:00:00	217.410	218.400000	212.8900	213.20	39325981.0	
31	2025-06-12 04:00:00	211.780	213.580000	211.3300	213.24	27639991.0	
32	2025-06-13 04:00:00	209.960	214.050000	209.6200	212.10	29337763.0	
33	2025-06-16 04:00:00	212.310	217.060000	211.6000	216.10	33284158.0	
34	2025-06-17 04:00:00	215.195	217.410000	214.5600	214.82	32086262.0	
35	2025-06-18 04:00:00	215.090	217.960000	212.3400	212.52	44360509.0	
36	2025-06-20 04:00:00	214.680	214.890000	208.2709	209.69	75350733.0	
37	2025-06-23 04:00:00	209.790	210.390000	207.3101	208.47	37311725.0	
38	2025-06-24 04:00:00	212.135	214.340000	211.0450	212.77	38378757.0	
39	2025-06-25 04:00:00	214.615	216.030000	211.1100	211.99	31755698.0	
40	2025-06-26 04:00:00	213.120	218.035000	212.0100	217.12	50480814.0	

41 2025-06-27 04:00:00 219.920 223.300000 216.7400 223.30 119217138.0

	vwap	transactions	otc
0	186.2911	507603	None
1	182.7658	688982	None
2	188.9767	890648	None
3	189.9300	920469	None
4	186.9373	458698	None
5	185.6619	371859	None
6	188.4964	499932	None
7	192.1266	513351	None
8	192.7564	362745	None
9	208.1558	920091	None
10	212.6792	743293	None
11	210.4614	519690	None
12	204.7892	821281	None
13	205.3336	490987	None
14	205.3692	425652	None
15	204.0108	417640	None
16	201.5235	569211	None
17	203.3273	514617	None
18	200.7891	483196	None
19	205.2156	505171	None
20	205.6978	407710	None
21	206.2943	496232	None
22	204.5318	493714	None
23	205.5940	438892	None
24	206.6343	436643	None
25	206.8920	406881	None
26	209.7551	668806	None
27	212.5672	512176	None
28	216.0254	560148	None
29	216.5561	429031	None
30	214.8840	503640	None
31	212.8655	364940	None
32	211.9129	443361	None
33	215.1622	457829	None
34	215.7332	431316	None
35	214.6135	475101	None
36	210.6230	591675	None
37	208.9130	513937	None
38	213.1129	459901	None
39	212.8066	417565	None
40	216.0944	572822	None
41	221.7267	750603	None

Combined data:

	Date	open	high	low	close	volume \
0	2025-01-02 05:00:00	222.030	225.150	218.1900	220.22	33956579.0

1	2025-01-03 05:00:00	222.505	225.360	221.6200	224.19	27515606.0
2	2025-01-06 05:00:00	226.780	228.835	224.8400	227.61	31849831.0
3	2025-01-07 05:00:00	227.900	228.381	221.4600	222.11	28084164.0
4	2025-01-08 05:00:00	223.185	223.520	220.2000	222.13	25033292.0
..
116	2025-06-23 04:00:00	209.790	210.390	207.3101	208.47	37311725.0
117	2025-06-24 04:00:00	212.135	214.340	211.0450	212.77	38378757.0
118	2025-06-25 04:00:00	214.615	216.030	211.1100	211.99	31755698.0
119	2025-06-26 04:00:00	213.120	218.035	212.0100	217.12	50480814.0
120	2025-06-27 04:00:00	219.920	223.300	216.7400	223.30	119217138.0

	vwap	transactions	otc
0	221.2745	449631	None
1	223.7050	346976	None
2	227.0921	410686	None
3	223.4033	379570	None
4	222.0414	325539	None
..
116	208.9130	513937	None
117	213.1129	459901	None
118	212.8066	417565	None
119	216.0944	572822	None
120	221.7267	750603	None

[121 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-06-27 00:00:00 thru 2025-08-26 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2025-06-27 04:00:00	219.920	223.3000	216.7400	223.30	119217138.0
1	2025-06-30 04:00:00	223.520	223.8200	219.1200	219.39	58887780.0
2	2025-07-01 04:00:00	219.500	221.8750	217.9300	220.46	39256830.0
3	2025-07-02 04:00:00	219.730	221.6000	219.0600	219.92	30894178.0
4	2025-07-03 04:00:00	221.820	224.0100	221.3600	223.41	29632353.0
5	2025-07-07 04:00:00	223.000	224.2900	222.3700	223.47	36604139.0
6	2025-07-08 04:00:00	223.915	224.0000	218.4300	219.36	45691987.0
7	2025-07-09 04:00:00	221.070	224.2900	220.4700	222.54	38155121.0
8	2025-07-10 04:00:00	221.550	222.7900	219.7000	222.26	30370591.0
9	2025-07-11 04:00:00	223.580	226.6799	222.3700	225.02	50518307.0
10	2025-07-14 04:00:00	225.070	226.6600	224.2400	225.69	35702597.0
11	2025-07-15 04:00:00	226.200	227.2700	225.4550	226.35	34907294.0
12	2025-07-16 04:00:00	225.875	226.1000	222.1800	223.19	39535926.0
13	2025-07-17 04:00:00	223.320	224.5000	222.5100	223.88	31855831.0
14	2025-07-18 04:00:00	225.140	226.4000	222.9800	226.13	37833807.0
15	2025-07-21 04:00:00	225.835	229.6900	225.6500	229.30	40297556.0

16	2025-07-22	04:00:00	229.680	230.0000	226.3500	227.47	37483702.0
17	2025-07-23	04:00:00	228.470	228.7900	227.0900	228.29	28294852.0
18	2025-07-24	04:00:00	229.170	236.0000	228.6400	232.23	42902266.0
19	2025-07-25	04:00:00	232.220	232.4800	231.1800	231.44	28712095.0
20	2025-07-28	04:00:00	233.350	234.2900	232.2500	232.79	26300138.0
21	2025-07-29	04:00:00	234.150	234.7200	230.3100	231.01	33716220.0
22	2025-07-30	04:00:00	231.640	231.8000	229.2900	230.19	32993273.0
23	2025-07-31	04:00:00	235.770	236.5300	231.4000	234.11	104357263.0
24	2025-08-01	04:00:00	217.210	220.4399	212.8000	214.75	122258801.0
25	2025-08-04	04:00:00	217.400	217.4400	211.4200	211.65	77890146.0
26	2025-08-05	04:00:00	213.050	216.3000	212.8700	213.75	51505121.0
27	2025-08-06	04:00:00	214.695	222.6500	213.7409	222.31	54823045.0
28	2025-08-07	04:00:00	221.000	226.2200	220.8200	223.13	40603513.0
29	2025-08-08	04:00:00	223.140	223.8000	221.8836	222.69	32970477.0
30	2025-08-11	04:00:00	221.780	223.0500	220.4000	221.30	31646222.0
31	2025-08-12	04:00:00	222.230	223.5000	219.0500	221.47	37254707.0
32	2025-08-13	04:00:00	222.000	224.9185	222.0000	224.56	36508335.0
33	2025-08-14	04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
34	2025-08-15	04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
35	2025-08-18	04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
36	2025-08-19	04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
37	2025-08-20	04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	221.7267	750603	None
1	220.6316	673189	None
2	220.1508	544150	None
3	220.2103	429633	None
4	222.8867	364422	None
5	223.4121	513469	None
6	220.4836	615447	None
7	222.4555	493756	None
8	221.7055	451223	None
9	224.8908	661385	None
10	225.6173	460428	None
11	226.4985	507705	None
12	223.7872	556155	None
13	223.6948	445580	None
14	225.2906	454003	None
15	228.3292	530328	None
16	227.8662	475209	None
17	228.1765	344504	None
18	231.8022	526287	None
19	231.7831	365765	None
20	233.0997	394809	None
21	231.4830	446598	None
22	230.9240	445462	None
23	232.4106	1254660	None

24	216.2973	1742475	None
25	213.1312	1046525	None
26	214.5142	639055	None
27	219.4299	654274	None
28	223.1357	553279	None
29	222.6698	397504	None
30	221.3865	441975	None
31	221.4124	472607	None
32	223.9846	488194	None
33	230.5020	738785	None
34	231.3857	495351	None
35	230.5791	371228	None
36	228.3423	405021	None
37	223.6745	493752	None

Combined data:

	Date	open	high	low	close	volume \
0	2025-01-02 05:00:00	222.030	225.1500	218.190	220.22	33956579.0
1	2025-01-03 05:00:00	222.505	225.3600	221.620	224.19	27515606.0
2	2025-01-06 05:00:00	226.780	228.8350	224.840	227.61	31849831.0
3	2025-01-07 05:00:00	227.900	228.3810	221.460	222.11	28084164.0
4	2025-01-08 05:00:00	223.185	223.5200	220.200	222.13	25033292.0
..
153	2025-08-14 04:00:00	227.400	233.1100	227.020	230.98	61545824.0
154	2025-08-15 04:00:00	232.580	234.0800	229.807	231.03	39649244.0
155	2025-08-18 04:00:00	230.225	231.9100	228.330	231.49	25248890.0
156	2025-08-19 04:00:00	230.090	230.5283	227.120	228.01	29891012.0
157	2025-08-20 04:00:00	227.120	227.2700	220.915	223.81	36604319.0

	vwap	transactions	otc
0	221.2745	449631	None
1	223.7050	346976	None
2	227.0921	410686	None
3	223.4033	379570	None
4	222.0414	325539	None
..
153	230.5020	738785	None
154	231.3857	495351	None
155	230.5791	371228	None
156	228.3423	405021	None
157	223.6745	493752	None

[158 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

```
[6]: # Copy this <!-- INSERT_polygon_fetch_full_history_HERE --> to index_temp.md
```

```
export_track_md_deps(dep_file=dep_file, md_filename="polygon_fetch_full_history.
↳md", content=df.to_markdown(floatfmt=".5f"))
```

Exported and tracked: polygon_fetch_full_history.md

1.5.2 Polygon Pull Data

```
[7]: current_year = datetime.now().year
current_month = datetime.now().month
current_day = datetime.now().day

# Example usage - daily
df = polygon_pull_data(
    base_directory=DATA_DIR,
    ticker="AMZN",
    source="Polygon",
    asset_class="Equities",
    start_date=datetime(current_year - 2, current_month, current_day),
    timespan="day",
    multiplier=1,
    adjusted=True,
    force_existing_check=True,
    free_tier=True,
    verbose=True,
    excel_export=True,
    pickle_export=True,
    output_confirmation=True,
)
```

File found...updating the AMZN day data.

Existing data:

	Date	open	high	low	close	volume	\
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0	
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0	
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0	
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0	
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0	
..	
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0	
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0	
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0	
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0	
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0	

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None

3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Last date in existing data: 2025-08-20 04:00:00

Number of rows in existing data: 518

Forcing check of existing data...

Pulling day data for 2023-08-21 00:00:00 thru 2023-10-20 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2023-08-22 04:00:00	135.080	135.6500	133.7300	134.25	32935104.0	
1	2023-08-23 04:00:00	134.500	135.9500	133.2200	135.52	42801043.0	
2	2023-08-24 04:00:00	136.400	136.7750	131.8300	131.84	43646250.0	
3	2023-08-25 04:00:00	132.470	133.8700	130.5800	133.26	44147451.0	
4	2023-08-28 04:00:00	133.780	133.9500	131.8500	133.14	34108410.0	
5	2023-08-29 04:00:00	133.380	135.1400	133.2500	134.91	38646093.0	
6	2023-08-30 04:00:00	134.930	135.6800	133.9200	135.07	36137015.0	
7	2023-08-31 04:00:00	135.060	138.7885	135.0000	138.01	58781314.0	
8	2023-09-01 04:00:00	139.455	139.9600	136.8750	138.12	40991536.0	
9	2023-09-05 04:00:00	137.730	137.8000	135.8200	137.27	40636738.0	
10	2023-09-06 04:00:00	136.320	137.4500	134.6100	135.36	41785507.0	
11	2023-09-07 04:00:00	133.900	138.0300	133.1600	137.85	48498912.0	
12	2023-09-08 04:00:00	136.860	138.8519	136.7500	138.23	38365929.0	
13	2023-09-11 04:00:00	138.750	143.6200	138.6400	143.10	56764525.0	
14	2023-09-12 04:00:00	142.320	143.0000	140.6100	141.23	42668452.0	
15	2023-09-13 04:00:00	140.950	144.9800	140.8650	144.85	60465175.0	
16	2023-09-14 04:00:00	145.080	145.8600	142.9500	144.72	64033607.0	
17	2023-09-15 04:00:00	142.690	143.5700	140.0900	140.39	102909327.0	
18	2023-09-18 04:00:00	140.480	141.7500	139.2200	139.98	42823480.0	
19	2023-09-19 04:00:00	138.700	138.8400	135.5600	137.63	61482470.0	
20	2023-09-20 04:00:00	138.550	139.3700	135.2000	135.29	46263716.0	
21	2023-09-21 04:00:00	131.940	132.2400	129.3100	129.33	70343342.0	
22	2023-09-22 04:00:00	131.110	132.0300	128.5200	129.12	59904348.0	
23	2023-09-25 04:00:00	129.360	131.7800	128.7700	131.27	46017825.0	
24	2023-09-26 04:00:00	130.120	130.3900	125.2800	125.98	73048207.0	
25	2023-09-27 04:00:00	125.760	127.4800	124.1300	125.98	66553449.0	
26	2023-09-28 04:00:00	124.040	126.5801	123.0400	125.98	54554968.0	
27	2023-09-29 04:00:00	128.200	129.1500	126.3200	127.12	62411730.0	
28	2023-10-02 04:00:00	127.280	130.4700	126.5400	129.46	48029744.0	
29	2023-10-03 04:00:00	128.060	128.5200	124.2544	124.72	51564991.0	
30	2023-10-04 04:00:00	126.060	127.3600	125.6800	127.00	44203870.0	

31	2023-10-05	04:00:00	126.710	126.7300	124.3300	125.96	39660643.0
32	2023-10-06	04:00:00	124.160	128.4500	124.1300	127.96	46836698.0
33	2023-10-09	04:00:00	126.220	128.7900	124.7600	128.26	38773738.0
34	2023-10-10	04:00:00	128.820	130.7400	128.0500	129.48	42178619.0
35	2023-10-11	04:00:00	129.740	132.0500	129.6100	131.83	40741842.0
36	2023-10-12	04:00:00	132.170	134.4800	131.2300	132.33	55528581.0
37	2023-10-13	04:00:00	132.980	133.3145	128.9500	129.79	45824685.0
38	2023-10-16	04:00:00	130.690	133.0700	130.4250	132.55	42832918.0
39	2023-10-17	04:00:00	130.390	132.5800	128.7100	131.47	49344550.0
40	2023-10-18	04:00:00	129.900	130.6699	127.5100	128.13	42699479.0
41	2023-10-19	04:00:00	130.565	132.2400	127.4700	128.40	60961355.0
42	2023-10-20	04:00:00	128.050	128.1700	124.9700	125.17	56406410.0

	vwap	transactions	otc
0	134.5803	328047	None
1	134.9818	382203	None
2	133.1621	406488	None
3	132.5207	405801	None
4	132.7142	333030	None
5	134.4652	361304	None
6	134.9916	325590	None
7	137.7966	466039	None
8	137.9769	398730	None
9	136.8707	363848	None
10	135.6483	399464	None
11	136.5671	426888	None
12	138.0726	351930	None
13	141.8304	546830	None
14	141.6569	395583	None
15	143.8922	520766	None
16	144.8135	511529	None
17	141.0102	563980	None
18	140.0755	346514	None
19	136.9778	488183	None
20	136.9168	402932	None
21	130.5430	643638	None
22	130.1568	486108	None
23	130.8524	412022	None
24	126.9468	619791	None
25	125.4248	553871	None
26	125.0832	493974	None
27	127.5752	439844	None
28	128.9332	436813	None
29	125.4744	479691	None
30	126.5844	407400	None
31	125.6178	356274	None
32	126.7206	410287	None
33	126.9932	347740	None

34	129.6571	369849	None
35	130.7803	364559	None
36	132.8411	475931	None
37	130.6094	387721	None
38	132.1167	395337	None
39	131.0178	400903	None
40	128.9440	404633	None
41	129.8377	538133	None
42	125.9402	489134	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2023-10-19 00:00:00 thru 2023-12-18 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2023-10-19 04:00:00	130.565	132.2400	127.4700	128.40	60961355.0
1	2023-10-20 04:00:00	128.050	128.1700	124.9700	125.17	56406410.0
2	2023-10-23 04:00:00	124.630	127.8800	123.9800	126.56	48259953.0
3	2023-10-24 04:00:00	127.740	128.8000	126.3400	128.56	46477355.0

4	2023-10-25	04:00:00	126.040	126.3400	120.7900	121.39	74577544.0
5	2023-10-26	04:00:00	120.630	121.6393	118.3500	119.57	100419516.0
6	2023-10-27	04:00:00	126.200	130.0200	125.5200	127.74	125309313.0
7	2023-10-30	04:00:00	129.720	133.0000	128.5600	132.71	72485542.0
8	2023-10-31	04:00:00	132.750	133.5700	131.7100	133.09	51589380.0
9	2023-11-01	04:00:00	133.960	137.3500	133.7100	137.00	61529409.0
10	2023-11-02	04:00:00	138.730	138.8100	136.4700	138.07	52236693.0
11	2023-11-03	04:00:00	138.990	139.4900	137.4500	138.60	44059805.0
12	2023-11-06	05:00:00	138.760	140.7300	138.3600	139.74	44970417.0
13	2023-11-07	05:00:00	140.550	143.3700	140.5000	142.71	53553537.0
14	2023-11-08	05:00:00	142.970	143.1200	141.2183	142.08	44521658.0
15	2023-11-09	05:00:00	142.020	142.6500	139.8400	140.60	36235367.0
16	2023-11-10	05:00:00	140.460	143.6500	139.9100	143.56	49349937.0
17	2023-11-13	05:00:00	142.080	143.2300	140.6700	142.59	35680570.0
18	2023-11-14	05:00:00	145.000	147.2600	144.6800	145.80	56674551.0
19	2023-11-15	05:00:00	147.060	147.2900	142.5900	143.20	63875720.0
20	2023-11-16	05:00:00	140.910	143.3200	139.5200	142.83	49653512.0
21	2023-11-17	05:00:00	142.660	145.2300	142.5450	145.18	49678437.0
22	2023-11-20	05:00:00	145.130	146.6300	144.7250	146.13	41978766.0
23	2023-11-21	05:00:00	143.910	144.0500	141.5000	143.90	71225992.0
24	2023-11-22	05:00:00	144.570	147.7400	144.5700	146.71	45700002.0
25	2023-11-24	05:00:00	146.700	147.2000	145.3200	146.74	22378379.0
26	2023-11-27	05:00:00	147.530	149.2600	146.8800	147.73	53762428.0
27	2023-11-28	05:00:00	146.980	147.5999	145.5300	147.03	42711682.0
28	2023-11-29	05:00:00	147.850	148.5400	145.9700	146.32	40610907.0
29	2023-11-30	05:00:00	144.760	146.9300	144.3320	146.09	65814022.0
30	2023-12-01	05:00:00	146.000	147.2450	145.5500	147.03	39951833.0
31	2023-12-04	05:00:00	145.250	145.3500	142.8100	144.84	48294244.0
32	2023-12-05	05:00:00	143.550	148.5700	143.1300	146.88	46822411.0
33	2023-12-06	05:00:00	147.580	147.8500	144.2800	144.52	39678960.0
34	2023-12-07	05:00:00	146.150	147.9200	145.3400	146.88	52352830.0
35	2023-12-08	05:00:00	145.480	147.8400	145.4000	147.42	41905965.0
36	2023-12-11	05:00:00	145.660	146.1900	143.6400	145.89	50907288.0
37	2023-12-12	05:00:00	145.520	147.5000	145.3000	147.48	44944264.0
38	2023-12-13	05:00:00	148.120	149.4600	146.8200	148.84	52766196.0
39	2023-12-14	05:00:00	149.930	150.5400	145.5200	147.42	58400848.0
40	2023-12-15	05:00:00	148.380	150.5700	147.8800	149.97	110089342.0
41	2023-12-18	05:00:00	150.560	154.8550	150.0500	154.07	62512828.0

	vwap	transactions	otc
0	129.8377	538133	None
1	125.9402	489134	None
2	126.3033	423355	None
3	127.8893	399787	None
4	122.7390	738252	None
5	120.5766	866563	None
6	128.1285	1056045	None
7	131.7162	616257	None

8	132.7607	432954	None
9	135.7789	552684	None
10	137.6996	464074	None
11	138.5921	406045	None
12	139.6953	392505	None
13	142.5043	469255	None
14	142.0397	375299	None
15	141.2394	338545	None
16	142.3780	410268	None
17	142.3769	339006	None
18	146.1430	508013	None
19	143.9570	550008	None
20	142.0802	444059	None
21	144.3582	381169	None
22	145.9368	380926	None
23	143.0430	566880	None
24	146.7929	428449	None
25	146.3718	217521	None
26	148.2873	465572	None
27	146.8346	383221	None
28	146.8633	358306	None
29	145.7585	460829	None
30	146.6909	361363	None
31	144.4521	462624	None
32	146.6481	446158	None
33	145.5034	365815	None
34	146.7179	382097	None
35	146.9405	343829	None
36	145.3001	435150	None
37	146.7466	338593	None
38	148.2608	438472	None
39	147.8687	532121	None
40	149.5349	492773	None
41	153.4071	511128	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2023-12-17 00:00:00 thru 2024-02-15 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2023-12-18 05:00:00	150.56	154.855	150.0500	154.07	62512828.0	
1	2023-12-19 05:00:00	154.40	155.120	152.6900	153.79	43171292.0	
2	2023-12-20 05:00:00	152.90	155.630	151.5600	152.12	50322106.0	
3	2023-12-21 05:00:00	153.30	153.970	152.1000	153.84	36305733.0	
4	2023-12-22 05:00:00	153.77	154.350	152.7100	153.42	29514093.0	
5	2023-12-26 05:00:00	153.56	153.975	153.0300	153.41	25067222.0	
6	2023-12-27 05:00:00	153.56	154.780	153.1200	153.34	31434733.0	
7	2023-12-28 05:00:00	153.72	154.080	152.9500	153.38	27057002.0	
8	2023-12-29 05:00:00	153.10	153.890	151.0300	151.94	39823204.0	
9	2024-01-02 05:00:00	151.54	152.380	148.3900	149.93	47339424.0	
10	2024-01-03 05:00:00	149.20	151.050	148.3300	148.47	49425495.0	
11	2024-01-04 05:00:00	145.59	147.380	144.0500	144.57	56039807.0	
12	2024-01-05 05:00:00	144.69	146.590	144.5300	145.24	45153147.0	
13	2024-01-08 05:00:00	146.74	149.400	146.1500	149.10	46757053.0	
14	2024-01-09 05:00:00	148.33	151.710	148.2100	151.37	43812567.0	
15	2024-01-10 05:00:00	152.06	154.420	151.8810	153.73	44421830.0	
16	2024-01-11 05:00:00	155.04	157.170	153.1200	155.18	49072691.0	
17	2024-01-12 05:00:00	155.39	156.200	154.0100	154.62	40484155.0	
18	2024-01-16 05:00:00	153.53	154.990	152.1500	153.16	41384636.0	
19	2024-01-17 05:00:00	151.49	152.150	149.9100	151.71	34953363.0	
20	2024-01-18 05:00:00	152.77	153.775	151.8200	153.50	37850245.0	
21	2024-01-19 05:00:00	153.83	155.760	152.7400	155.34	51651628.0	
22	2024-01-22 05:00:00	156.89	157.050	153.9000	154.78	43687468.0	
23	2024-01-23 05:00:00	154.85	156.210	153.9300	156.02	37986039.0	
24	2024-01-24 05:00:00	157.80	158.510	156.4800	156.87	48547315.0	
25	2024-01-25 05:00:00	156.95	158.505	154.5501	157.75	43638592.0	
26	2024-01-26 05:00:00	158.42	160.720	157.9100	159.12	51047353.0	

27	2024-01-29	05:00:00	159.34	161.290	158.9000	161.26	45270385.0
28	2024-01-30	05:00:00	160.70	161.730	158.4900	159.00	45207430.0
29	2024-01-31	05:00:00	157.00	159.010	154.8100	155.20	50284371.0
30	2024-02-01	05:00:00	155.87	159.760	155.6200	159.28	76542419.0
31	2024-02-02	05:00:00	169.19	172.500	167.3300	171.81	117218313.0
32	2024-02-05	05:00:00	170.20	170.550	167.7000	170.31	55081297.0
33	2024-02-06	05:00:00	169.39	170.710	167.6500	169.15	42505518.0
34	2024-02-07	05:00:00	169.48	170.880	168.9400	170.53	47174060.0
35	2024-02-08	05:00:00	169.65	171.430	168.8800	169.84	42316454.0
36	2024-02-09	05:00:00	170.90	175.000	170.5803	174.45	56985986.0
37	2024-02-12	05:00:00	174.80	175.390	171.5400	172.34	51050440.0
38	2024-02-13	05:00:00	167.73	170.950	165.7500	168.64	56345122.0
39	2024-02-14	05:00:00	169.21	171.210	168.2800	170.98	42815544.0
40	2024-02-15	05:00:00	170.58	171.170	167.5900	169.80	49855196.0

	vwap	transactions	otc
0	153.4071	511128	None
1	153.7217	384137	None
2	153.6876	461445	None
3	153.1091	350098	None
4	153.5444	310942	None
5	153.4082	282620	None
6	153.6438	311463	None
7	153.5269	301925	None
8	152.3275	353441	None
9	149.8527	476433	None
10	149.4058	416955	None
11	145.4160	541342	None
12	145.4513	380386	None
13	148.3238	410733	None
14	150.6311	403026	None
15	153.4523	430517	None
16	155.0181	468131	None
17	154.8238	351914	None
18	153.1343	396071	None
19	151.2287	354674	None
20	153.1334	344845	None
21	154.6114	408186	None
22	154.9418	427992	None
23	155.3239	353578	None
24	157.4001	435422	None
25	157.1518	455334	None
26	159.1848	426676	None
27	160.2769	447373	None
28	159.4989	458714	None
29	156.2692	532783	None
30	160.6891	742980	None
31	170.9357	1134751	None

32	169.5243	572539	None
33	168.8813	406692	None
34	170.1810	452958	None
35	170.2667	399952	None
36	173.3948	549269	None
37	173.2975	512028	None
38	168.8780	572688	None
39	170.0334	457093	None
40	169.4354	521440	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2024-02-14 00:00:00 thru 2024-04-14 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2024-02-14 05:00:00	169.210	171.2100	168.2800	170.980	42815544.0
1	2024-02-15 05:00:00	170.580	171.1700	167.5900	169.800	49855196.0
2	2024-02-16 05:00:00	168.740	170.4200	167.1700	169.510	48107744.0
3	2024-02-20 05:00:00	167.830	168.7100	165.7400	167.080	41980326.0

4	2024-02-21	05:00:00	168.940	170.2300	167.1400	168.590	44575623.0
5	2024-02-22	05:00:00	173.100	174.8000	171.7700	174.580	55392354.0
6	2024-02-23	05:00:00	174.280	175.7500	173.7000	174.990	59715243.0
7	2024-02-26	05:00:00	175.700	176.3700	174.2600	174.730	44368614.0
8	2024-02-27	05:00:00	174.075	174.6200	172.8600	173.540	31141732.0
9	2024-02-28	05:00:00	172.440	174.0500	172.2700	173.160	28180482.0
10	2024-02-29	05:00:00	173.010	177.2200	172.8500	176.760	53805359.0
11	2024-03-01	05:00:00	176.750	178.7250	176.0700	178.220	31981152.0
12	2024-03-04	05:00:00	177.530	180.1400	177.4900	177.580	37381520.0
13	2024-03-05	05:00:00	176.930	176.9300	173.3030	174.120	37228343.0
14	2024-03-06	05:00:00	175.540	176.4600	173.2600	173.510	32090926.0
15	2024-03-07	05:00:00	174.830	177.9900	173.7200	176.820	34063283.0
16	2024-03-08	05:00:00	176.440	178.7850	174.3300	175.350	37893242.0
17	2024-03-11	04:00:00	174.310	174.4700	171.4700	171.960	28484777.0
18	2024-03-12	04:00:00	173.500	176.7600	171.9800	175.390	36610604.0
19	2024-03-13	04:00:00	175.900	177.6200	175.5500	176.555	30772600.0
20	2024-03-14	04:00:00	177.690	179.5300	176.4650	178.750	43705840.0
21	2024-03-15	04:00:00	176.640	177.9300	173.9000	174.420	72147390.0
22	2024-03-18	04:00:00	175.800	176.6900	174.2800	174.480	31250688.0
23	2024-03-19	04:00:00	174.215	176.0900	173.5200	175.900	26880893.0
24	2024-03-20	04:00:00	176.140	178.5300	174.6400	178.150	29947150.0
25	2024-03-21	04:00:00	179.988	181.4150	178.1500	178.150	32824320.0
26	2024-03-22	04:00:00	177.752	179.2550	176.7500	178.870	27995378.0
27	2024-03-25	04:00:00	178.010	180.9900	177.2400	179.710	29815464.0
28	2024-03-26	04:00:00	180.150	180.4500	177.9500	178.300	29658982.0
29	2024-03-27	04:00:00	179.880	180.0000	177.3099	179.830	33272551.0
30	2024-03-28	04:00:00	180.170	181.7000	179.2600	180.380	38051588.0
31	2024-04-01	04:00:00	180.790	183.0000	179.9500	180.970	29174521.0
32	2024-04-02	04:00:00	179.070	180.7900	178.3762	180.690	32611546.0
33	2024-04-03	04:00:00	179.900	182.8700	179.8000	182.410	31046638.0
34	2024-04-04	04:00:00	184.000	185.1000	180.0000	180.000	41624261.0
35	2024-04-05	04:00:00	182.380	186.2700	181.9700	185.070	42373992.0
36	2024-04-08	04:00:00	186.900	187.2900	184.8100	185.190	39221282.0
37	2024-04-09	04:00:00	187.240	187.3400	184.2000	185.670	36546946.0
38	2024-04-10	04:00:00	182.765	186.2699	182.6700	185.950	35879151.0
39	2024-04-11	04:00:00	186.740	189.7700	185.5100	189.050	40020742.0
40	2024-04-12	04:00:00	187.720	188.3800	185.0800	186.130	38608849.0

	vwap	transactions	otc
0	170.0334	457093	None
1	169.4354	521440	None
2	169.1823	468195	None
3	166.9099	478320	None
4	168.5460	466026	None
5	173.5407	547144	None
6	174.7441	467172	None
7	174.9955	428536	None
8	173.7541	357527	None

9	173.3190	328701	None
10	175.7037	446966	None
11	177.8612	406700	None
12	178.5391	443556	None
13	174.4669	448860	None
14	174.3209	389497	None
15	176.4306	379859	None
16	176.2105	443161	None
17	172.4231	409871	None
18	175.3076	416722	None
19	176.7291	362923	None
20	178.4157	461845	None
21	175.0466	465353	None
22	175.0880	358797	None
23	175.3685	318062	None
24	176.6897	355615	None
25	179.3211	377254	None
26	178.5495	295011	None
27	179.6492	352597	None
28	179.1228	326743	None
29	179.1069	341921	None
30	180.4863	364803	None
31	180.9175	370612	None
32	180.0750	355849	None
33	182.0849	350783	None
34	182.5315	465372	None
35	184.7021	465500	None
36	185.8041	427793	None
37	185.5047	400971	None
38	185.0344	448182	None
39	187.9700	445674	None
40	186.5613	420407	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None

1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2024-04-13 00:00:00 thru 2024-06-12 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2024-04-15 04:00:00	187.425	188.6900	183.0000	183.62	48052395.0	
1	2024-04-16 04:00:00	183.270	184.8300	182.2600	183.32	32891265.0	
2	2024-04-17 04:00:00	184.310	184.5700	179.8200	181.28	31359673.0	
3	2024-04-18 04:00:00	181.470	182.3900	178.6500	179.22	30723793.0	
4	2024-04-19 04:00:00	178.740	179.0000	173.4400	174.63	56000729.0	
5	2024-04-22 04:00:00	176.940	178.8700	174.5600	177.23	37924890.0	
6	2024-04-23 04:00:00	178.080	179.9300	175.9750	179.54	37046519.0	
7	2024-04-24 04:00:00	179.940	180.3230	176.1800	176.59	34185109.0	
8	2024-04-25 04:00:00	169.680	173.9200	166.3200	173.67	49249390.0	
9	2024-04-26 04:00:00	177.795	180.8200	176.1300	179.62	43919765.0	
10	2024-04-29 04:00:00	182.750	183.5300	179.3900	180.96	54063937.0	
11	2024-04-30 04:00:00	181.090	182.9900	174.8000	175.00	94639786.0	
12	2024-05-01 04:00:00	181.635	185.1500	176.5600	179.00	94645148.0	
13	2024-05-02 04:00:00	180.850	185.1000	179.9100	184.72	54303510.0	
14	2024-05-03 04:00:00	186.990	187.8700	185.4200	186.21	39172004.0	
15	2024-05-06 04:00:00	186.280	188.7450	184.8000	188.70	34725295.0	
16	2024-05-07 04:00:00	188.920	189.9400	187.3050	188.76	34048902.0	
17	2024-05-08 04:00:00	187.440	188.4300	186.3850	188.00	26136350.0	
18	2024-05-09 04:00:00	188.880	191.7000	187.4400	189.50	43368377.0	
19	2024-05-10 04:00:00	189.160	189.8920	186.9300	187.48	34141771.0	
20	2024-05-13 04:00:00	188.000	188.3100	185.3600	186.57	24898613.0	
21	2024-05-14 04:00:00	183.820	187.7200	183.4500	187.07	38698155.0	
22	2024-05-15 04:00:00	185.970	186.7193	182.7300	185.99	75459927.0	
23	2024-05-16 04:00:00	185.600	187.3100	183.4600	183.63	38834450.0	
24	2024-05-17 04:00:00	183.760	185.3000	183.3500	184.70	33175655.0	
25	2024-05-20 04:00:00	184.340	186.6650	183.2800	183.54	30511768.0	
26	2024-05-21 04:00:00	182.300	183.2600	180.7500	183.15	50839129.0	
27	2024-05-22 04:00:00	183.880	185.2200	181.9715	183.13	28148784.0	
28	2024-05-23 04:00:00	183.660	184.7600	180.0800	181.05	33670173.0	

29	2024-05-24	04:00:00	181.650	182.4350	180.3000	180.75	27471640.0
30	2024-05-28	04:00:00	179.930	182.2400	179.4900	182.15	29926963.0
31	2024-05-29	04:00:00	181.700	184.0800	181.5500	182.02	32009294.0
32	2024-05-30	04:00:00	181.310	181.3400	178.3550	179.32	29249229.0
33	2024-05-31	04:00:00	178.300	179.2100	173.8700	176.44	58903939.0
34	2024-06-03	04:00:00	177.700	178.7000	175.9200	178.34	30786640.0
35	2024-06-04	04:00:00	177.640	179.8200	176.4400	179.34	27198388.0
36	2024-06-05	04:00:00	180.100	181.5000	178.7500	181.28	32116394.0
37	2024-06-06	04:00:00	181.745	185.0000	181.4900	185.00	31371151.0
38	2024-06-07	04:00:00	184.900	186.2888	183.3600	184.30	28021473.0
39	2024-06-10	04:00:00	184.070	187.2300	183.7900	187.06	34494498.0
40	2024-06-11	04:00:00	187.060	187.7700	184.5373	187.23	27265108.0
41	2024-06-12	04:00:00	188.015	188.3500	185.4300	186.89	33984216.0

	vwap	transactions	otc
0	185.4571	507835	None
1	183.6970	400887	None
2	182.0367	395806	None
3	180.2611	383902	None
4	175.5315	569859	None
5	176.7253	396300	None
6	178.5315	379412	None
7	177.2280	405353	None
8	172.0357	618272	None
9	178.9723	478171	None
10	180.6619	592823	None
11	178.7014	852830	None
12	180.3923	964487	None
13	183.1937	529460	None
14	186.4278	413924	None
15	187.0583	394638	None
16	188.7466	400757	None
17	187.6368	306857	None
18	189.9402	460881	None
19	188.0349	355996	None
20	186.4346	333255	None
21	185.9235	426722	None
22	184.7315	786217	None
23	185.1924	411940	None
24	184.5362	339447	None
25	184.4488	371996	None
26	181.8687	515624	None
27	183.4584	344846	None
28	182.1214	384775	None
29	181.3674	333234	None
30	181.1801	401075	None
31	182.6075	361239	None
32	179.8024	392763	None

33	175.6595	614468	None
34	177.3956	415225	None
35	178.5865	329595	None
36	180.7343	362053	None
37	183.7391	374051	None
38	184.8873	336108	None
39	186.4005	385196	None
40	186.2675	341795	None
41	187.0695	443192	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2024-06-11 00:00:00 thru 2024-08-10 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2024-06-11 04:00:00	187.060	187.7700	184.5373	187.23	27265108.0
1	2024-06-12 04:00:00	188.015	188.3500	185.4300	186.89	33984216.0
2	2024-06-13 04:00:00	186.090	187.6700	182.6660	183.83	39721545.0
3	2024-06-14 04:00:00	183.080	183.7200	182.2300	183.66	25456410.0

4	2024-06-17	04:00:00	182.520	185.0000	181.2200	184.06	35601907.0
5	2024-06-18	04:00:00	183.735	184.2900	181.4300	182.81	36659157.0
6	2024-06-20	04:00:00	182.910	186.5100	182.7200	186.10	44726779.0
7	2024-06-21	04:00:00	187.800	189.2750	185.8600	189.08	72931754.0
8	2024-06-24	04:00:00	189.330	191.0000	185.3300	185.57	50610379.0
9	2024-06-25	04:00:00	186.810	188.8400	185.4200	186.34	45898475.0
10	2024-06-26	04:00:00	186.920	194.8000	186.2600	193.61	65103893.0
11	2024-06-27	04:00:00	195.005	199.8400	194.2000	197.85	74397491.0
12	2024-06-28	04:00:00	197.730	198.8500	192.5000	193.25	76930192.0
13	2024-07-01	04:00:00	193.490	198.2957	192.8200	197.20	41192011.0
14	2024-07-02	04:00:00	197.280	200.4300	195.9300	200.00	45600013.0
15	2024-07-03	04:00:00	199.940	200.0290	196.7601	197.59	31597926.0
16	2024-07-05	04:00:00	198.650	200.5500	198.1700	200.00	39858885.0
17	2024-07-08	04:00:00	200.040	201.2000	197.9600	199.29	34767261.0
18	2024-07-09	04:00:00	199.400	200.5700	199.0450	199.34	32756736.0
19	2024-07-10	04:00:00	199.995	200.1100	197.6900	199.79	32883753.0
20	2024-07-11	04:00:00	200.090	200.2699	192.8600	195.05	44565041.0
21	2024-07-12	04:00:00	194.800	196.4700	193.8301	194.49	30598525.0
22	2024-07-15	04:00:00	194.560	196.1900	190.8300	192.72	40683227.0
23	2024-07-16	04:00:00	195.590	196.6200	192.2400	193.02	33994714.0
24	2024-07-17	04:00:00	191.350	191.5800	185.9900	187.93	48076139.0
25	2024-07-18	04:00:00	189.590	189.6800	181.4480	183.75	51043626.0
26	2024-07-19	04:00:00	181.140	184.9300	180.1100	183.13	43081829.0
27	2024-07-22	04:00:00	185.000	185.0600	182.4800	182.55	39931923.0
28	2024-07-23	04:00:00	184.100	189.3900	183.5600	186.41	47537670.0
29	2024-07-24	04:00:00	183.200	185.4500	180.4100	180.83	41532360.0
30	2024-07-25	04:00:00	182.910	183.8958	176.8000	179.85	44464163.0
31	2024-07-26	04:00:00	180.390	183.1900	180.2400	182.50	29505964.0
32	2024-07-29	04:00:00	183.840	184.7500	182.3800	183.20	33270123.0
33	2024-07-30	04:00:00	184.720	185.8600	179.3800	181.71	39508574.0
34	2024-07-31	04:00:00	185.050	187.9400	184.4600	186.98	41667326.0
35	2024-08-01	04:00:00	189.285	190.6000	181.8700	184.07	70435635.0
36	2024-08-02	04:00:00	166.750	168.7700	160.5500	167.90	141448365.0
37	2024-08-05	04:00:00	154.210	162.9600	151.6100	161.02	83149437.0
38	2024-08-06	04:00:00	161.710	165.0800	158.5404	161.93	59950830.0
39	2024-08-07	04:00:00	166.550	167.5800	161.4300	162.77	48408240.0
40	2024-08-08	04:00:00	165.165	166.6899	162.5500	165.80	44616206.0
41	2024-08-09	04:00:00	166.400	168.5500	165.8500	166.94	36401049.0

	vwap	transactions	otc
0	186.2675	341795	None
1	187.0695	443192	None
2	184.4373	422857	None
3	183.2123	307405	None
4	183.3132	432322	None
5	182.6619	390343	None
6	185.1798	471760	None
7	188.1272	435848	None

8	187.2457	535367	None
9	186.9520	382085	None
10	192.1117	649554	None
11	197.3191	721971	None
12	194.6710	605538	None
13	196.1129	501335	None
14	198.7859	485437	None
15	198.0371	395364	None
16	199.8638	451244	None
17	199.4211	443701	None
18	199.7893	379497	None
19	199.2791	414183	None
20	195.7606	582321	None
21	194.9444	427388	None
22	193.0188	571566	None
23	193.6997	449302	None
24	187.6363	682876	None
25	184.4092	672039	None
26	182.8750	482540	None
27	183.3798	448824	None
28	187.1186	489929	None
29	182.2157	506965	None
30	180.8787	548308	None
31	181.9844	375650	None
32	183.4509	350828	None
33	181.6782	442154	None
34	186.5551	474654	None
35	183.4888	855378	None
36	165.5385	1668927	None
37	159.7718	1147517	None
38	162.2895	674745	None
39	164.3705	571697	None
40	165.2136	483376	None
41	167.0036	394854	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2024-08-09 00:00:00 thru 2024-10-08 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2024-08-09 04:00:00	166.400	168.5500	165.8500	166.94	36401049.0	
1	2024-08-12 04:00:00	168.140	168.5500	166.1101	166.80	30072788.0	
2	2024-08-13 04:00:00	167.810	171.0400	167.1000	170.23	39237915.0	
3	2024-08-14 04:00:00	172.110	172.2800	168.8600	170.10	28843804.0	
4	2024-08-15 04:00:00	174.860	177.9100	173.9900	177.59	51698513.0	
5	2024-08-16 04:00:00	177.040	178.3400	176.2601	177.06	31489175.0	
6	2024-08-19 04:00:00	177.640	178.3000	176.1600	178.22	31129807.0	
7	2024-08-20 04:00:00	177.920	179.0100	177.4308	178.88	26255204.0	
8	2024-08-21 04:00:00	179.920	182.3850	178.8937	180.11	35599120.0	
9	2024-08-22 04:00:00	181.380	181.4700	175.6800	176.13	32047482.0	
10	2024-08-23 04:00:00	177.340	178.9699	175.2400	177.04	29150091.0	
11	2024-08-26 04:00:00	176.700	177.4682	174.3000	175.50	22366236.0	
12	2024-08-27 04:00:00	174.150	174.8900	172.2500	173.12	29841979.0	
13	2024-08-28 04:00:00	173.690	173.6900	168.9200	170.80	29045025.0	
14	2024-08-29 04:00:00	173.220	174.2900	170.8100	172.12	26407815.0	
15	2024-08-30 04:00:00	172.780	178.9000	172.6000	178.50	43429355.0	
16	2024-09-03 04:00:00	177.550	178.2600	175.2600	176.25	37817511.0	
17	2024-09-04 04:00:00	174.480	175.9800	172.5400	173.33	30309225.0	
18	2024-09-05 04:00:00	175.000	179.8750	174.9950	177.89	40170526.0	
19	2024-09-06 04:00:00	177.240	178.3800	171.1600	171.39	41466537.0	
20	2024-09-09 04:00:00	174.530	175.8500	173.5100	175.40	29037362.0	
21	2024-09-10 04:00:00	177.490	180.5000	176.7900	179.55	36233796.0	
22	2024-09-11 04:00:00	180.095	184.9900	175.7300	184.52	42564698.0	
23	2024-09-12 04:00:00	184.800	187.4100	183.5400	187.00	33622483.0	
24	2024-09-13 04:00:00	187.000	188.5000	185.9100	186.49	26495351.0	
25	2024-09-16 04:00:00	185.290	185.8100	183.3600	184.89	26065485.0	
26	2024-09-17 04:00:00	186.850	189.4500	186.1400	186.88	26091682.0	

27	2024-09-18	04:00:00	186.450	188.8000	185.0600	186.43	34448130.0
28	2024-09-19	04:00:00	190.040	190.9900	188.4700	189.87	39543168.0
29	2024-09-20	04:00:00	190.230	191.8400	187.4100	191.60	100378553.0
30	2024-09-23	04:00:00	191.640	194.4500	190.5700	193.88	36993111.0
31	2024-09-24	04:00:00	194.270	195.3700	190.1300	193.96	43478926.0
32	2024-09-25	04:00:00	193.750	193.9498	192.1600	192.53	26391144.0
33	2024-09-26	04:00:00	194.310	194.5300	189.5400	191.16	36334854.0
34	2024-09-27	04:00:00	190.680	190.9000	187.3400	187.97	36002316.0
35	2024-09-30	04:00:00	187.140	188.4900	184.6500	186.33	41680400.0
36	2024-10-01	04:00:00	184.900	186.1900	183.4519	185.13	36044906.0
37	2024-10-02	04:00:00	184.440	186.6000	184.0400	184.76	23704056.0
38	2024-10-03	04:00:00	183.045	183.4400	180.8750	181.96	30204302.0
39	2024-10-04	04:00:00	185.750	187.6000	183.6000	186.51	41079011.0
40	2024-10-07	04:00:00	182.950	183.6000	180.2500	180.80	42364201.0
41	2024-10-08	04:00:00	181.915	183.0900	180.9200	182.72	26372086.0

	vwap	transactions	otc
0	167.0036	394854	None
1	167.2266	393788	None
2	169.2246	411872	None
3	170.2211	376508	None
4	176.3421	530507	None
5	177.4409	368932	None
6	177.6116	358311	None
7	178.3947	302465	None
8	180.3652	398151	None
9	177.5877	402700	None
10	177.0898	359923	None
11	175.6982	337930	None
12	173.2261	377150	None
13	170.8395	382296	None
14	172.7424	358875	None
15	176.5814	398639	None
16	176.4646	466728	None
17	173.9051	378823	None
18	177.6231	458086	None
19	172.7411	447653	None
20	174.7837	347055	None
21	179.1290	419587	None
22	181.2208	465492	None
23	186.0135	431083	None
24	187.1696	338171	None
25	184.6797	353780	None
26	187.5174	351410	None
27	186.7645	381348	None
28	189.6779	422926	None
29	190.8708	430701	None
30	193.0995	405139	None

31	193.0480	404498	None
32	192.7974	320595	None
33	191.3116	411701	None
34	188.6334	401802	None
35	186.2158	440558	None
36	184.7147	440041	None
37	185.1407	314477	None
38	182.1979	398492	None
39	185.7307	431150	None
40	181.2782	520248	None
41	182.3367	314225	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2024-10-07 00:00:00 thru 2024-12-06 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2024-10-07 04:00:00	182.950	183.6000	180.2500	180.80	42364201.0
1	2024-10-08 04:00:00	181.915	183.0900	180.9200	182.72	26372086.0

2	2024-10-09	04:00:00	182.820	185.8450	182.0500	185.17	26343117.0
3	2024-10-10	04:00:00	187.130	188.1340	185.8300	186.65	27785043.0
4	2024-10-11	04:00:00	186.630	189.9284	186.3000	188.82	25751557.0
5	2024-10-14	04:00:00	189.780	189.8300	187.3600	187.54	22614407.0
6	2024-10-15	04:00:00	187.630	188.4100	184.5800	187.69	32178925.0
7	2024-10-16	04:00:00	187.050	187.7800	185.6100	186.89	23456812.0
8	2024-10-17	04:00:00	188.220	188.9400	186.0000	187.53	25039414.0
9	2024-10-18	04:00:00	187.150	190.7400	186.2800	188.99	37417670.0
10	2024-10-21	04:00:00	188.050	189.4600	186.4000	189.07	24639393.0
11	2024-10-22	04:00:00	188.350	191.5201	186.9750	189.70	29650593.0
12	2024-10-23	04:00:00	188.850	189.1600	183.6900	184.71	31937089.0
13	2024-10-24	04:00:00	185.250	187.1100	183.8600	186.38	21647395.0
14	2024-10-25	04:00:00	187.850	190.4500	187.5300	187.83	29362060.0
15	2024-10-28	04:00:00	189.565	190.2100	188.2100	188.39	27930836.0
16	2024-10-29	04:00:00	188.580	191.4599	187.8150	190.83	35690158.0
17	2024-10-30	04:00:00	194.695	195.6100	192.4200	192.73	37707550.0
18	2024-10-31	04:00:00	190.510	190.6000	185.2300	186.40	75146759.0
19	2024-11-01	04:00:00	199.000	200.5000	197.0200	197.93	99687847.0
20	2024-11-04	05:00:00	196.450	197.3300	194.3101	195.78	38492062.0
21	2024-11-05	05:00:00	196.040	199.8200	195.9900	199.50	30564784.0
22	2024-11-06	05:00:00	200.010	207.5500	199.1400	207.09	72292167.0
23	2024-11-07	05:00:00	207.440	212.2500	207.1900	210.05	52878383.0
24	2024-11-08	05:00:00	209.720	209.9633	207.4400	208.18	36075846.0
25	2024-11-11	05:00:00	208.500	209.6500	205.5900	206.84	35456012.0
26	2024-11-12	05:00:00	208.370	209.5400	206.0100	208.91	38942918.0
27	2024-11-13	05:00:00	209.400	215.0900	209.1400	214.10	46212943.0
28	2024-11-14	05:00:00	214.160	215.9000	210.8800	211.48	42620309.0
29	2024-11-15	05:00:00	206.760	207.3400	199.6100	202.61	86591144.0
30	2024-11-18	05:00:00	204.150	204.6700	200.9500	201.70	36512465.0
31	2024-11-19	05:00:00	199.330	205.3000	198.7800	204.61	31197867.0
32	2024-11-20	05:00:00	202.980	203.1300	199.4500	202.88	32768989.0
33	2024-11-21	05:00:00	203.490	203.4900	195.7500	198.38	58800042.0
34	2024-11-22	05:00:00	198.250	199.2599	196.7500	197.12	31530844.0
35	2024-11-25	05:00:00	199.280	201.9499	199.0000	201.45	40685672.0
36	2024-11-26	05:00:00	201.900	208.0000	201.7900	207.86	41673737.0
37	2024-11-27	05:00:00	206.980	207.6400	205.0500	205.74	28061638.0
38	2024-11-29	05:00:00	205.830	208.2000	204.5900	207.89	24892447.0
39	2024-12-02	05:00:00	209.960	212.9900	209.5101	210.71	39523185.0
40	2024-12-03	05:00:00	210.310	214.0200	209.6500	213.44	32214828.0
41	2024-12-04	05:00:00	215.960	220.0000	215.7500	218.16	48745716.0
42	2024-12-05	05:00:00	218.030	222.1500	217.3000	220.55	41140220.0
43	2024-12-06	05:00:00	220.750	227.1500	220.6000	227.03	44178069.0

	vwap	transactions	otc
0	181.2782	520248	None
1	182.3367	314225	None
2	184.5009	345913	None
3	186.8877	353745	None

4	188.8012	342262	None
5	188.1983	328273	None
6	186.8613	433036	None
7	186.6747	325887	None
8	187.6646	327337	None
9	189.1225	375969	None
10	188.3148	329960	None
11	189.6999	333875	None
12	185.6853	402057	None
13	186.1395	300448	None
14	188.7107	357522	None
15	188.9501	330722	None
16	190.3437	371710	None
17	193.4991	478472	None
18	188.8446	836777	None
19	198.8005	1003136	None
20	196.0049	476483	None
21	198.4642	372051	None
22	204.3931	848126	None
23	210.1282	610078	None
24	208.6500	443816	None
25	206.8887	424873	None
26	208.0913	476724	None
27	212.8523	529093	None
28	212.3467	463284	None
29	203.3135	968372	None
30	202.4554	425696	None
31	203.3052	383403	None
32	201.7121	406917	None
33	198.6947	736592	None
34	197.5866	402719	None
35	200.8436	427416	None
36	206.2740	496396	None
37	206.0978	350396	None
38	206.7766	263735	None
39	210.9654	461819	None
40	212.6394	379348	None
41	218.1624	553276	None
42	220.1758	463440	None
43	225.0548	524366	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..

513	2025-08-14	04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15	04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18	04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19	04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20	04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2024-12-05 00:00:00 thru 2025-02-03 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2024-12-05 05:00:00	218.030	222.1500	217.3000	220.55	41140220.0
1	2024-12-06 05:00:00	220.750	227.1500	220.6000	227.03	44178069.0
2	2024-12-09 05:00:00	227.210	230.0800	225.6700	226.09	46819363.0
3	2024-12-10 05:00:00	226.090	229.0600	224.2002	225.04	31199864.0
4	2024-12-11 05:00:00	226.410	231.2000	226.2600	230.26	35385785.0
5	2024-12-12 05:00:00	229.830	231.0900	227.6300	228.97	28204084.0
6	2024-12-13 05:00:00	228.400	230.2000	225.8608	227.46	28768080.0
7	2024-12-16 05:00:00	230.230	233.0000	228.0100	232.93	37552096.0
8	2024-12-17 05:00:00	232.390	232.7300	227.8500	231.15	35948131.0
9	2024-12-18 05:00:00	230.770	231.3999	220.1100	220.52	43281443.0
10	2024-12-19 05:00:00	224.910	226.0900	222.9200	223.29	39918739.0
11	2024-12-20 05:00:00	219.840	226.2100	218.7300	224.92	88279184.0
12	2024-12-23 05:00:00	225.010	226.8800	223.9000	225.06	28070007.0
13	2024-12-24 05:00:00	226.940	229.1400	226.1300	229.05	15007497.0
14	2024-12-26 05:00:00	228.500	228.5000	226.6706	227.05	16174500.0
15	2024-12-27 05:00:00	225.600	226.0300	220.9000	223.75	27367147.0
16	2024-12-30 05:00:00	220.060	222.9972	218.4300	221.30	28321240.0
17	2024-12-31 05:00:00	222.965	223.2299	218.9400	219.39	24819655.0
18	2025-01-02 05:00:00	222.030	225.1500	218.1900	220.22	33956579.0
19	2025-01-03 05:00:00	222.505	225.3600	221.6200	224.19	27515606.0
20	2025-01-06 05:00:00	226.780	228.8350	224.8400	227.61	31849831.0

21	2025-01-07	05:00:00	227.900	228.3810	221.4600	222.11	28084164.0
22	2025-01-08	05:00:00	223.185	223.5200	220.2000	222.13	25033292.0
23	2025-01-10	05:00:00	221.460	221.7100	216.5000	218.94	36811525.0
24	2025-01-13	05:00:00	218.060	219.4000	216.4700	218.46	27262655.0
25	2025-01-14	05:00:00	220.440	221.8200	216.2000	217.76	24711650.0
26	2025-01-15	05:00:00	222.830	223.5700	220.7500	223.35	31291257.0
27	2025-01-16	05:00:00	224.420	224.6500	220.3100	220.66	24757276.0
28	2025-01-17	05:00:00	225.840	226.5100	223.0800	225.94	42370123.0
29	2025-01-21	05:00:00	228.900	231.7800	226.9400	230.71	39951456.0
30	2025-01-22	05:00:00	232.020	235.4400	231.1900	235.01	41448217.0
31	2025-01-23	05:00:00	234.100	235.5200	231.5100	235.42	26404364.0
32	2025-01-24	05:00:00	234.500	236.4000	232.9300	234.85	25890738.0
33	2025-01-27	05:00:00	226.210	235.6100	225.8600	235.42	49428332.0
34	2025-01-28	05:00:00	234.290	241.7700	233.9800	238.15	41587188.0
35	2025-01-29	05:00:00	239.015	240.3900	236.1500	237.07	26091716.0
36	2025-01-30	05:00:00	237.140	237.9500	232.2200	234.64	32020728.0
37	2025-01-31	05:00:00	236.500	240.2900	236.4100	237.68	36162377.0
38	2025-02-03	05:00:00	234.060	239.2500	232.9000	237.42	37285868.0

	vwap	transactions	otc
0	220.1758	463440	None
1	225.0548	524366	None
2	227.7060	572754	None
3	226.2639	417668	None
4	229.9009	427394	None
5	229.3395	342638	None
6	227.8553	362555	None
7	231.5484	430659	None
8	230.7897	433266	None
9	225.2441	529103	None
10	224.0262	466361	None
11	223.9497	456278	None
12	225.2708	321899	None
13	228.3619	203039	None
14	227.6146	262085	None
15	223.0146	381077	None
16	220.8850	371497	None
17	220.4005	308613	None
18	221.2745	449631	None
19	223.7050	346976	None
20	227.0921	410686	None
21	223.4033	379570	None
22	222.0414	325539	None
23	218.8640	493840	None
24	218.1426	373519	None
25	218.6245	332022	None
26	222.6690	353985	None
27	221.8942	313323	None

28	225.3927	385914	None
29	230.0901	552447	None
30	234.0950	512233	None
31	234.2435	365153	None
32	234.4587	349378	None
33	231.8188	661486	None
34	238.6365	542344	None
35	237.4141	384889	None
36	235.0230	428122	None
37	238.2019	435388	None
38	236.6088	551855	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-02-02 00:00:00 thru 2025-04-03 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume \
0	2025-02-03 05:00:00	234.060	239.2500	232.9000	237.42	37285868.0
1	2025-02-04 05:00:00	239.010	242.5200	238.0300	242.06	29713812.0

2	2025-02-05	05:00:00	237.020	238.3200	235.2000	236.17	38832042.0
3	2025-02-06	05:00:00	238.010	239.6599	236.0100	238.83	60897095.0
4	2025-02-07	05:00:00	232.500	234.8100	228.0600	229.15	77539276.0
5	2025-02-10	05:00:00	230.545	233.9200	229.2000	233.14	35419926.0
6	2025-02-11	05:00:00	231.920	233.4400	230.1300	232.76	23713726.0
7	2025-02-12	05:00:00	230.460	231.1800	228.1600	228.93	32285249.0
8	2025-02-13	05:00:00	228.850	230.4200	227.5200	230.37	31346512.0
9	2025-02-14	05:00:00	229.200	229.8900	227.2300	228.68	27031084.0
10	2025-02-18	05:00:00	228.820	229.3000	223.7200	226.65	42975133.0
11	2025-02-19	05:00:00	225.520	226.8300	223.7100	226.63	28566709.0
12	2025-02-20	05:00:00	224.775	225.1300	221.8100	222.88	30001665.0
13	2025-02-21	05:00:00	223.280	223.3100	214.7400	216.58	55323850.0
14	2025-02-24	05:00:00	217.450	217.7150	212.4200	212.71	42387585.0
15	2025-02-25	05:00:00	211.630	213.3400	204.1600	212.80	58957977.0
16	2025-02-26	05:00:00	214.940	218.1600	213.0900	214.35	39120603.0
17	2025-02-27	05:00:00	218.350	219.9700	208.3700	208.74	40548571.0
18	2025-02-28	05:00:00	208.650	212.6200	206.9900	212.28	51771737.0
19	2025-03-03	05:00:00	213.352	214.0100	202.5500	205.02	42948447.0
20	2025-03-04	05:00:00	200.110	206.8000	197.4320	203.80	60853084.0
21	2025-03-05	05:00:00	204.800	209.9800	203.2600	208.36	38610085.0
22	2025-03-06	05:00:00	204.400	205.7700	198.3015	200.70	49863755.0
23	2025-03-07	05:00:00	199.490	202.2653	192.5300	199.25	59802821.0
24	2025-03-10	04:00:00	195.600	196.7300	190.8500	194.54	62350926.0
25	2025-03-11	04:00:00	193.900	200.1800	193.4000	196.59	54002880.0
26	2025-03-12	04:00:00	200.720	201.5200	195.2900	198.89	43679284.0
27	2025-03-13	04:00:00	198.165	198.8799	191.8200	193.89	41270761.0
28	2025-03-14	04:00:00	197.410	198.6500	195.3200	197.95	38096663.0
29	2025-03-17	04:00:00	198.770	199.0000	194.3247	195.74	47341752.0
30	2025-03-18	04:00:00	192.520	194.0000	189.3800	192.82	40414867.0
31	2025-03-19	04:00:00	193.380	195.9650	191.9600	195.54	39442878.0
32	2025-03-20	04:00:00	193.070	199.3200	192.3000	194.95	38921113.0
33	2025-03-21	04:00:00	192.900	196.9900	192.5200	196.21	60056917.0
34	2025-03-24	04:00:00	200.000	203.6400	199.9500	203.26	41625365.0
35	2025-03-25	04:00:00	203.595	206.2100	203.2200	205.71	31171161.0
36	2025-03-26	04:00:00	205.835	206.0100	199.9250	201.13	32990973.0
37	2025-03-27	04:00:00	200.890	203.7900	199.2821	201.36	27317661.0
38	2025-03-28	04:00:00	198.420	199.2600	191.8810	192.72	52548226.0
39	2025-03-31	04:00:00	188.190	191.3300	184.4000	190.26	63547558.0
40	2025-04-01	04:00:00	187.860	193.9300	187.2000	192.17	41267315.0
41	2025-04-02	04:00:00	187.660	198.3400	187.6600	196.01	53679198.0
42	2025-04-03	04:00:00	182.995	184.1300	176.9200	178.41	95553617.0

	vwap	transactions	otc
0	236.6088	551855	None
1	241.1698	412003	None
2	236.5720	552144	None
3	235.7527	803119	None
4	230.4527	943441	None

5	232.4151	473182	None
6	232.1101	329473	None
7	229.6079	400325	None
8	229.3312	408846	None
9	228.6543	375369	None
10	225.8082	600702	None
11	225.3773	391423	None
12	222.9351	447333	None
13	217.7122	774966	None
14	214.0526	586136	None
15	209.6983	800750	None
16	215.4418	508442	None
17	212.3725	558788	None
18	210.4030	540930	None
19	207.4103	666781	None
20	201.9283	872022	None
21	207.0552	514659	None
22	201.4563	688561	None
23	197.6619	785672	None
24	193.5839	902822	None
25	196.8215	668549	None
26	198.8820	573896	None
27	194.3326	588538	None
28	197.4359	470644	None
29	196.4612	568556	None
30	192.0851	554394	None
31	194.2885	445698	None
32	195.6360	455391	None
33	195.3015	394836	None
34	202.3699	515880	None
35	205.1037	402368	None
36	202.2164	450177	None
37	201.8553	363321	None
38	193.9820	678645	None
39	188.2800	769862	None
40	191.4704	528168	None
41	194.2870	710850	None
42	180.3426	1447903	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0

515	2025-08-18	04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19	04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20	04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-04-02 00:00:00 thru 2025-06-01 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2025-04-02 04:00:00	187.660	198.340000	187.6600	196.01	53679198.0	
1	2025-04-03 04:00:00	182.995	184.130000	176.9200	178.41	95553617.0	
2	2025-04-04 04:00:00	167.145	178.143600	166.0000	171.00	123159359.0	
3	2025-04-07 04:00:00	162.000	183.409900	161.3800	175.26	109327115.0	
4	2025-04-08 04:00:00	185.230	185.900000	168.5700	170.66	87710360.0	
5	2025-04-09 04:00:00	172.115	192.650000	169.9300	191.10	116804328.0	
6	2025-04-10 04:00:00	185.440	186.869200	175.8518	181.22	68302045.0	
7	2025-04-11 04:00:00	179.930	185.860000	178.0000	184.87	50594339.0	
8	2025-04-14 04:00:00	186.840	187.440000	179.2300	182.12	48002540.0	
9	2025-04-15 04:00:00	181.410	182.350000	177.9331	179.59	43641952.0	
10	2025-04-16 04:00:00	176.290	179.104600	171.4100	174.33	51875316.0	
11	2025-04-17 04:00:00	176.000	176.210000	172.0000	172.61	44726453.0	
12	2025-04-21 04:00:00	169.600	169.600000	165.2850	167.32	48126111.0	
13	2025-04-22 04:00:00	169.845	176.780000	169.3500	173.18	56607202.0	
14	2025-04-23 04:00:00	183.450	187.380000	180.1900	180.60	63470149.0	
15	2025-04-24 04:00:00	180.915	186.740000	180.1800	186.54	43763196.0	
16	2025-04-25 04:00:00	187.620	189.940000	185.4900	188.99	36414330.0	
17	2025-04-28 04:00:00	190.105	190.220000	184.8850	187.70	33224732.0	
18	2025-04-29 04:00:00	183.990	188.015800	183.6800	187.39	41667255.0	
19	2025-04-30 04:00:00	182.170	185.050000	178.8500	184.42	55176543.0	
20	2025-05-01 04:00:00	190.630	191.807112	187.5000	190.20	74265963.0	
21	2025-05-02 04:00:00	191.435	192.880000	186.4000	189.98	77903487.0	
22	2025-05-05 04:00:00	186.510	188.180000	185.5300	186.35	35217469.0	

23	2025-05-06	04:00:00	184.570	187.930000	183.8500	185.01	29314055.0
24	2025-05-07	04:00:00	185.560	190.990000	185.0100	188.71	44002926.0
25	2025-05-08	04:00:00	191.430	194.330000	188.8200	192.08	41043620.0
26	2025-05-09	04:00:00	193.375	194.690000	191.1600	193.06	29663143.0
27	2025-05-12	04:00:00	210.710	211.660000	205.7500	208.64	75205042.0
28	2025-05-13	04:00:00	211.080	214.840000	210.1000	211.37	56193682.0
29	2025-05-14	04:00:00	211.450	211.930000	208.8500	210.25	38492128.0
30	2025-05-15	04:00:00	206.450	206.880000	202.6730	205.17	64347317.0
31	2025-05-16	04:00:00	206.850	206.850000	204.3740	205.59	43318478.0
32	2025-05-19	04:00:00	201.645	206.620000	201.2600	206.16	34314810.0
33	2025-05-20	04:00:00	204.628	205.589900	202.6500	204.07	29470373.0
34	2025-05-21	04:00:00	201.610	203.455000	200.0600	201.12	42460924.0
35	2025-05-22	04:00:00	201.380	205.760000	200.1600	203.10	38938882.0
36	2025-05-23	04:00:00	198.900	202.370000	197.8500	200.99	33393545.0
37	2025-05-27	04:00:00	203.085	206.690000	202.1900	206.02	34892044.0
38	2025-05-28	04:00:00	205.915	207.660000	204.4100	204.72	28549753.0
39	2025-05-29	04:00:00	208.025	208.810000	204.2300	205.70	34700005.0
40	2025-05-30	04:00:00	204.840	205.990000	201.6950	205.01	51679406.0

	vwap	transactions	otc
0	194.2870	710850	None
1	180.3426	1447903	None
2	173.2162	1529094	None
3	172.6690	1420152	None
4	176.4128	1146023	None
5	182.3345	1310706	None
6	181.6510	925662	None
7	182.6453	638386	None
8	182.9501	656762	None
9	180.0701	564759	None
10	174.8524	685436	None
11	173.5808	527949	None
12	166.9255	726774	None
13	173.2470	617509	None
14	183.1208	732657	None
15	184.8801	516092	None
16	187.9963	489570	None
17	187.4701	452721	None
18	186.2911	507603	None
19	182.7658	688982	None
20	188.9767	890648	None
21	189.9300	920469	None
22	186.9373	458698	None
23	185.6619	371859	None
24	188.4964	499932	None
25	192.1266	513351	None
26	192.7564	362745	None
27	208.1558	920091	None

28	212.6792	743293	None
29	210.4614	519690	None
30	204.7892	821281	None
31	205.3336	490987	None
32	205.3692	425652	None
33	204.0108	417640	None
34	201.5235	569211	None
35	203.3273	514617	None
36	200.7891	483196	None
37	205.2156	505171	None
38	205.6978	407710	None
39	206.2943	496232	None
40	204.5318	493714	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-05-31 00:00:00 thru 2025-07-30 00:00:00 for AMZN...

New data:

Date	open	high	low	close	volume \
------	------	------	-----	-------	----------

0	2025-06-02	04:00:00	204.980	207.0000	202.6800	206.65	29113319.0
1	2025-06-03	04:00:00	207.105	208.9469	205.0300	205.71	33139121.0
2	2025-06-04	04:00:00	206.550	208.1800	205.1800	207.23	29915592.0
3	2025-06-05	04:00:00	209.550	212.8100	207.5600	207.91	51979243.0
4	2025-06-06	04:00:00	212.400	213.8699	210.5000	213.57	39832500.0
5	2025-06-09	04:00:00	214.750	217.8500	212.8800	216.98	38102502.0
6	2025-06-10	04:00:00	216.780	217.6900	214.1500	217.61	31303317.0
7	2025-06-11	04:00:00	217.410	218.4000	212.8900	213.20	39325981.0
8	2025-06-12	04:00:00	211.780	213.5800	211.3300	213.24	27639991.0
9	2025-06-13	04:00:00	209.960	214.0500	209.6200	212.10	29337763.0
10	2025-06-16	04:00:00	212.310	217.0600	211.6000	216.10	33284158.0
11	2025-06-17	04:00:00	215.195	217.4100	214.5600	214.82	32086262.0
12	2025-06-18	04:00:00	215.090	217.9600	212.3400	212.52	44360509.0
13	2025-06-20	04:00:00	214.680	214.8900	208.2709	209.69	75350733.0
14	2025-06-23	04:00:00	209.790	210.3900	207.3101	208.47	37311725.0
15	2025-06-24	04:00:00	212.135	214.3400	211.0450	212.77	38378757.0
16	2025-06-25	04:00:00	214.615	216.0300	211.1100	211.99	31755698.0
17	2025-06-26	04:00:00	213.120	218.0350	212.0100	217.12	50480814.0
18	2025-06-27	04:00:00	219.920	223.3000	216.7400	223.30	119217138.0
19	2025-06-30	04:00:00	223.520	223.8200	219.1200	219.39	58887780.0
20	2025-07-01	04:00:00	219.500	221.8750	217.9300	220.46	39256830.0
21	2025-07-02	04:00:00	219.730	221.6000	219.0600	219.92	30894178.0
22	2025-07-03	04:00:00	221.820	224.0100	221.3600	223.41	29632353.0
23	2025-07-07	04:00:00	223.000	224.2900	222.3700	223.47	36604139.0
24	2025-07-08	04:00:00	223.915	224.0000	218.4300	219.36	45691987.0
25	2025-07-09	04:00:00	221.070	224.2900	220.4700	222.54	38155121.0
26	2025-07-10	04:00:00	221.550	222.7900	219.7000	222.26	30370591.0
27	2025-07-11	04:00:00	223.580	226.6799	222.3700	225.02	50518307.0
28	2025-07-14	04:00:00	225.070	226.6600	224.2400	225.69	35702597.0
29	2025-07-15	04:00:00	226.200	227.2700	225.4550	226.35	34907294.0
30	2025-07-16	04:00:00	225.875	226.1000	222.1800	223.19	39535926.0
31	2025-07-17	04:00:00	223.320	224.5000	222.5100	223.88	31855831.0
32	2025-07-18	04:00:00	225.140	226.4000	222.9800	226.13	37833807.0
33	2025-07-21	04:00:00	225.835	229.6900	225.6500	229.30	40297556.0
34	2025-07-22	04:00:00	229.680	230.0000	226.3500	227.47	37483702.0
35	2025-07-23	04:00:00	228.470	228.7900	227.0900	228.29	28294852.0
36	2025-07-24	04:00:00	229.170	236.0000	228.6400	232.23	42902266.0
37	2025-07-25	04:00:00	232.220	232.4800	231.1800	231.44	28712095.0
38	2025-07-28	04:00:00	233.350	234.2900	232.2500	232.79	26300138.0
39	2025-07-29	04:00:00	234.150	234.7200	230.3100	231.01	33716220.0
40	2025-07-30	04:00:00	231.640	231.8000	229.2900	230.19	32993273.0

	vwap	transactions	otc
0	205.5940	438892	None
1	206.6343	436643	None
2	206.8920	406881	None
3	209.7551	668806	None
4	212.5672	512176	None

5	216.0254	560148	None
6	216.5561	429031	None
7	214.8840	503640	None
8	212.8655	364940	None
9	211.9129	443361	None
10	215.1622	457829	None
11	215.7332	431316	None
12	214.6135	475101	None
13	210.6230	591675	None
14	208.9130	513937	None
15	213.1129	459901	None
16	212.8066	417565	None
17	216.0944	572822	None
18	221.7267	750603	None
19	220.6316	673189	None
20	220.1508	544150	None
21	220.2103	429633	None
22	222.8867	364422	None
23	223.4121	513469	None
24	220.4836	615447	None
25	222.4555	493756	None
26	221.7055	451223	None
27	224.8908	661385	None
28	225.6173	460428	None
29	226.4985	507705	None
30	223.7872	556155	None
31	223.6948	445580	None
32	225.2906	454003	None
33	228.3292	530328	None
34	227.8662	475209	None
35	228.1765	344504	None
36	231.8022	526287	None
37	231.7831	365765	None
38	233.0997	394809	None
39	231.4830	446598	None
40	230.9240	445462	None

Combined data:

	Date	open	high	low	close	volume \
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0
..
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0

517 2025-08-20 04:00:00 227.120 227.2700 220.9150 223.81 36604319.0

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Pulling day data for 2025-07-29 00:00:00 thru 2025-09-27 00:00:00 for AMZN...

New data:

	Date	open	high	low	close	volume	\
0	2025-07-29 04:00:00	234.150	234.7200	230.3100	231.01	33716220.0	
1	2025-07-30 04:00:00	231.640	231.8000	229.2900	230.19	32993273.0	
2	2025-07-31 04:00:00	235.770	236.5300	231.4000	234.11	104357263.0	
3	2025-08-01 04:00:00	217.210	220.4399	212.8000	214.75	122258801.0	
4	2025-08-04 04:00:00	217.400	217.4400	211.4200	211.65	77890146.0	
5	2025-08-05 04:00:00	213.050	216.3000	212.8700	213.75	51505121.0	
6	2025-08-06 04:00:00	214.695	222.6500	213.7409	222.31	54823045.0	
7	2025-08-07 04:00:00	221.000	226.2200	220.8200	223.13	40603513.0	
8	2025-08-08 04:00:00	223.140	223.8000	221.8836	222.69	32970477.0	
9	2025-08-11 04:00:00	221.780	223.0500	220.4000	221.30	31646222.0	
10	2025-08-12 04:00:00	222.230	223.5000	219.0500	221.47	37254707.0	
11	2025-08-13 04:00:00	222.000	224.9185	222.0000	224.56	36508335.0	
12	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0	
13	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0	
14	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0	
15	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0	
16	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0	

	vwap	transactions	otc
0	231.4830	446598	None
1	230.9240	445462	None
2	232.4106	1254660	None
3	216.2973	1742475	None
4	213.1312	1046525	None
5	214.5142	639055	None

6	219.4299	654274	None
7	223.1357	553279	None
8	222.6698	397504	None
9	221.3865	441975	None
10	221.4124	472607	None
11	223.9846	488194	None
12	230.5020	738785	None
13	231.3857	495351	None
14	230.5791	371228	None
15	228.3423	405021	None
16	223.6745	493752	None

Combined data:

	Date	open	high	low	close	volume	\
0	2023-07-28 04:00:00	129.690	133.0100	129.3300	132.21	46269781.0	
1	2023-07-31 04:00:00	133.200	133.8700	132.3800	133.68	41901516.0	
2	2023-08-01 04:00:00	133.550	133.6900	131.6199	131.69	42250989.0	
3	2023-08-02 04:00:00	130.154	130.2300	126.8200	128.21	50988614.0	
4	2023-08-03 04:00:00	127.480	129.8400	126.4100	128.91	90855736.0	
..	
513	2025-08-14 04:00:00	227.400	233.1100	227.0200	230.98	61545824.0	
514	2025-08-15 04:00:00	232.580	234.0800	229.8070	231.03	39649244.0	
515	2025-08-18 04:00:00	230.225	231.9100	228.3300	231.49	25248890.0	
516	2025-08-19 04:00:00	230.090	230.5283	227.1200	228.01	29891012.0	
517	2025-08-20 04:00:00	227.120	227.2700	220.9150	223.81	36604319.0	

	vwap	transactions	otc
0	131.8837	413438	None
1	133.3410	406644	None
2	132.2470	385743	None
3	128.3973	532942	None
4	131.4941	746639	None
..
513	230.5020	738785	None
514	231.3857	495351	None
515	230.5791	371228	None
516	228.3423	405021	None
517	223.6745	493752	None

[518 rows x 9 columns]

Sleeping for 12 seconds to avoid hitting API rate limits...

Exporting AMZN day data to Excel...

Exporting AMZN day data to Pickle...

The first and last date of data for AMZN is:

	Date	open	high	low	close	volume	vwap	\
0	2023-07-28 04:00:00	129.69	133.01	129.33	132.21	46269781.0	131.8837	

```

    transactions    otc
0          413438  None

      Date    open    high    low    close    volume \
517 2025-08-20 04:00:00 227.12 227.27 220.915 223.81 36604319.0

```

```

      vwap    transactions    otc
517 223.6745          493752  None

```

```

Number of rows after data update: 518
Number of rows added during update: 0
Polygon data complete for AMZN day data.
-----

```

```

[8]: # Copy this <!-- INSERT_polygon_pull_data_HERE --> to index_temp.md
export_track_md_deps(dep_file=dep_file, md_filename="polygon_pull_data.md",
    ↪content=df.to_markdown(floatfmt=".5f"))

```

```

Exported and tracked: polygon_pull_data.md

```