PROJECT 3

This project utilizes a Lambda function to generate near real-time finance data records for interactive querying. The project also generates a real-time data pipeline for finance data records for interactive querying. Specifically, we will use the yfinance module and we will grab pricing information for each of the following e-commerce stocks:

* Amazon (AMZN)
* Alibaba Group (BABA)
* Walmart (WMT)
* eBay (EBAY)
* Shopify (SHOP)
* Target (TGT)
* Best Buy (BBY)
* The Home Depot (HD)
* Costco (COST)
* Kroger (KR)

We are collecting one full day’s worth of stock HIGH and LOW prices for each company listed above between April 3rd, 2023, and April 14th, 2023, at a five-minute interval. Furthermore, use the database to write and run a query that includes the average volatility, the highest volatility, and the lowest volatility per company per day from the list above. Lastly, we’ll take the query results to generate 2 visualizations and give conclusion or opinion on the results.

Graphical user interface

Description automatically generated

**screenshot\_of\_s3\_bucket.png**

Graphical user interface, text, application

Description automatically generated

**results.jpeg**

A screenshot of a computer

Description automatically generated with medium confidence

**kinesis\_monitor.jpeg**

Graphical user interface, text, application, email

Description automatically generated

**exec\_results.jpeg**

Chart, line chart

Description automatically generated

bargraph.png

Chart, bar chart

Description automatically generated

linegraph.png

* *Both graphs support the statement of Costco being the most volatile company.*