



Dayton Roberts and Nicholas Moore

#### Data We Used

- Stock Ticker Data: The daily performance of 9000+ stocks anywhere from the 1960s to the modern day
- Search History Data: A scale from 0 to 100 of the monthly searches of 4500+ stocks





#### More Data We Used

 Company Info Data: Stock Symbol, Company Name, Industry, etc. for 6800+ US stocks



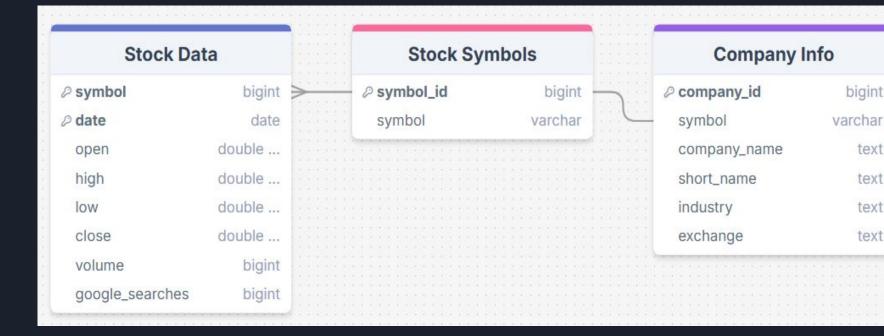
# Data Wrangling

- The Stock Ticker dataset had lots of information, at over 34 million rows, but simple columns
- The Search History Data not as large but had 4500 columns, one for each stock. This exceeds the column limit of 1600 on our version of Beekeeper

# Data Wrangling

- We used python dataframes to parse the search history table to get the google search rating for that month to populate our database
- The dates were in different formats across the datasets which caused comparison problems in python

### Database



#### Data Preservation

- Stock symbol, date, company name and industry cannot be null
- Search ratings must be between 0 and 100
- Stock price must not be NULL
- All values for the stock must not be NULL

## Homework Questions

- A. What stock prices decreased when the previous month had a search count rating of less than 25?
- B. What 5 stocks had the lowest average closing price when their google search count was less than 50? Submit your answer as a CSV file.
- C. What industry in which year had the largest increase in total value of all stocks based on this dataset?

# Interesting Things Found by Solutions

How google searches affect/signify the increase and/or decrease in the value of a stock across different industries

# Learning Objectives of the Questions

- Use GROUP BY to compare values across categorical variables.
- Use HAVING and can implement it accordingly to select a subset of groups.
- Output the results of a query to a CSV file.
- Compute many different aggregate calculations over an entire column.
- Write a SELECT query that utilizes basic WHERE filtering and ORDER BY.
- When a self-JOIN is necessary and can compute one in those instances.

# Questions?