

Week 6 Assignment MySQL

A portfolio pricing program

In this assignment, you will write a portfolio pricing program. The portfolio sits in the database portfolio. The database contains two tables: stocks and holdings.

Currently, the data sits in a txt file portfolio.txt The code in the next two cells reads this file, creates the database and the tables, and populates them with the data. Experiment with querying the database to get a sense for the (simple!) structure of the database

You need to do the following:

- Run the code that creates the database (make sure that portfolio.txt is in the same directory as this program:
- Write a function that calculates the net pnl (gain) on each stock in the portfolio:
 - Write a function that calculates the dollar gain for each stock called `get_pnl()` :
 - Your function should return a dictionary with the company name as the key and the gain as the value. For example, for the given data set, and stock prices at the close of 9/27/2017, the function should return (your actual gains will be different because stock prices do change!):

- { 'Alphabet, Inc.': -3105.0, 'Apple, Inc.': 60110.0, 'General Electric': 12095.0, 'Goldman Sachs': 112416.5 }
- Notes:
 - Write a function `get_price(ticker)` that gets the current stock price from the google finance page
 - You'll need to use a JOIN to combine the two tables in the database
 - `cursor.execute` returns DECIMAL and INT types. Convert these into float and int.
 - $gain = price_now * shares - purchase_price * shares$ and You need to accumulate these values for each stock.
- Write a function that - given a ticker - get's the current price from google finance called `get_price()`
 - The google finance webpage (<https://finance.google.com/finance>) can query the current stock price for a specific ticker (e.g. <https://finance.google.com/finance?q=AAPL>)
 - Look at those HTML pages from google finance to inspect the different elements and to find the stock price
 - From this you can get an idea on how to build your code for `get_price()` but you will need to base your assignment on the html files given in Vocareum instead of scraping the price from the google web page!
 - The files you will need are already provided to you in the Work folder. Download them and open them to have a look, since they are basic HTML some elements may be broken but will not hamper you in any way.
 - WHEN SUBMITTING DO ONLY USE THE PROVIDED FILES AND DO NOT SCRAPE THE LATEST DATA FROM THE FINANCE

PAGE!

Python is a particularly good environment for working with multiple data sources and the purpose of this assignment is to get some practice combining data doing just that. I've done most of the work for you (setting up the database) but take a look at that code as well and play around with it a bit.

PYTHON ASSIGNMENT #6 MYSQL (External resource)

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