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CS 499

12/12/2020

Database Narrative

I created this database in my CS-340 class, we were instructed to create a database using MongoDB and a json file provided by the professor. I took this database and enhanced it to actually work properly. At first it was working fine but it had some errors it would throw up sometimes. So, what I did was, I used codio and rewrote the entire database to see where I was messing up. Though I didn’t find any syntax errors, I instead found out I was importing the json files incorrectly. This is the only database I worked on ever, so it wasn’t really that well made. Plus, I only just worked on it last semester. So, I haven’t learned that much more. But it is all functioning and it’s a database that can show case my ability to make databases using json files and java. But I made the external documents for this database in python so those also had some syntax errors I had to correct.

I used the MongoDB tool for creating a database from the json file. I then provided a database name “Market” and a collection name “Stocks” then specify the path of the json file, which a database will be created. First up was then to import database. I needed to find documents with 50-day moving average for supplied values. To find I used find({}) statement. And whatever parameters I need it to search by. This was all done on a python findDocuments.py document. Next was the python document to find documents for the document key “Sector” to find the grouped “industry” documents if need be. This asks the user to provide a string to find the document. Like query = {“Industry” : industryname}. This would obtain the ticker symbols with industry matches the string. Like I mentioned above I used python to create RESTful.API documents that would be added to the database using the url. After add to the database the function will take the data from the documents and add it to the collection stock.

I think this database helps to show that I have learned a wide variety of things that can be translated into making things like databases, and algorithms.