|  |
| --- |
| SNHU CS-340 Client/Server Development 22EW2 |
| Module Eight Assignment |
| Emily Wood |

|  |
| --- |
| emily.wood7@snhu.edu  12-12-2022 |

1. Using the mongoimport tool, create the database “companies” by loading the documents found in the “companies.json” file into the “research” collection. This file is located in the “/usr/local/datasets/” directory in Apporto. Verify your load by issuing the following queries:

Text

Description automatically generated

1. db.research.find({"name" : "AdventNet"})

Text

Description automatically generated

1. db.research.find({"founded\_year" : 1996},{"name" : 1}).limit(10)

Text

Description automatically generated

1. Perform the following tasks using MongoDB queries:
   1. List only the first 20 names of companies founded after the year 2010, ordered alphabetically.

A screenshot of a computer

Description automatically generated

* 1. List only the first 20 names of companies with offices in either California or Texas, ordered by the number of employees and sorted largest to smallest.

A screenshot of a computer

Description automatically generated

1. Design and implement a MongoDB aggregation pipeline to show the total number of employees by state for all companies that have offices in the United States. Be sure that you account for the fact that some companies have offices in several states.

This took on multiple iterations before I felt like I got it right

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

db.research.aggregate(  
[  
{$unwind: “$offices”},  
{$match : {“offices.country\_code” : “USA”}},  
{$group : {\_id: “$offices.state\_code”, totalEmployees: {$sum: “$number\_of\_employees”}}},  
{$sort: {“$offices.state\_code” : -1}}  
])