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SNHU CS340

Module 8

10/22/2023

Data Aggregation Pipeline

Create database and import values:

A computer screen shot of a computer code

Description automatically generated

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

A computer screen shot of a program

Description automatically generated

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

A computer screen with a dark background

Description automatically generated

List only the first 20 names of companies founded after the year 2010, ordered alphabetically:

A screenshot of a computer

Description automatically generated

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 program

Description automatically generated

Design and implement a MongoDB aggregation pipeline to show the total number of offices by state for all companies that have offices in the United States:

A computer screen with text

Description automatically generated

Explain your aggregation pipeline:

aggregate([]) groups the documents together based on parameters. $match makes sure all documents have a USA country code. $unwind outputs a document for each element in the $offices array. $group gathers documents by like parameters. Count and $sum help tally the number of offices by state.