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CS 340

Module 8

04/24/2025

Data Aggregation Pipeline

1. Import data

A screenshot of a computer screen

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1. Verify Import

A screenshot of a computer program

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A screenshot of a computer program

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

A screenshot of a computer screen

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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 program

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1. **Design and implement a MongoDB aggregation pipeline**
2. **$unwind: “$offices”**

Creates a separate document of each element in the office array

1. **$match: {“offices.country\_code”: “USA”}**

Will only show offices that are in the country code USA

1. **$group: {\_id: “offices.state\_code”, total\_offices: {$sum: 1}}**

Groups the documents by state code and then counts the total number of offices that are in each state.

1. **$sort: {total\_offices: -1}**

Sorts the results in descending order based on the total number of offices.

A screenshot of a computer program

AI-generated content may be incorrect.