Week 2 Portfolio

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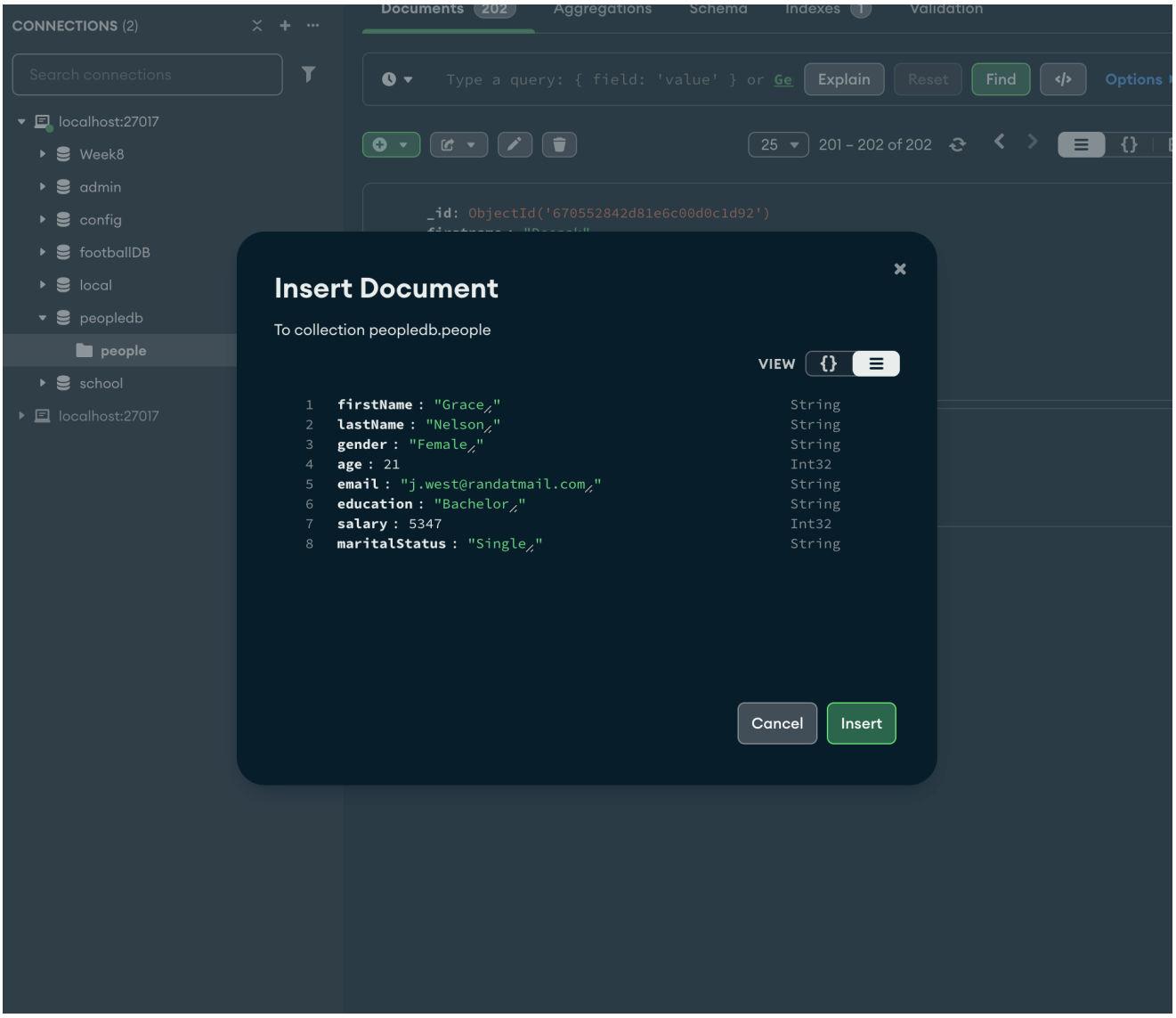
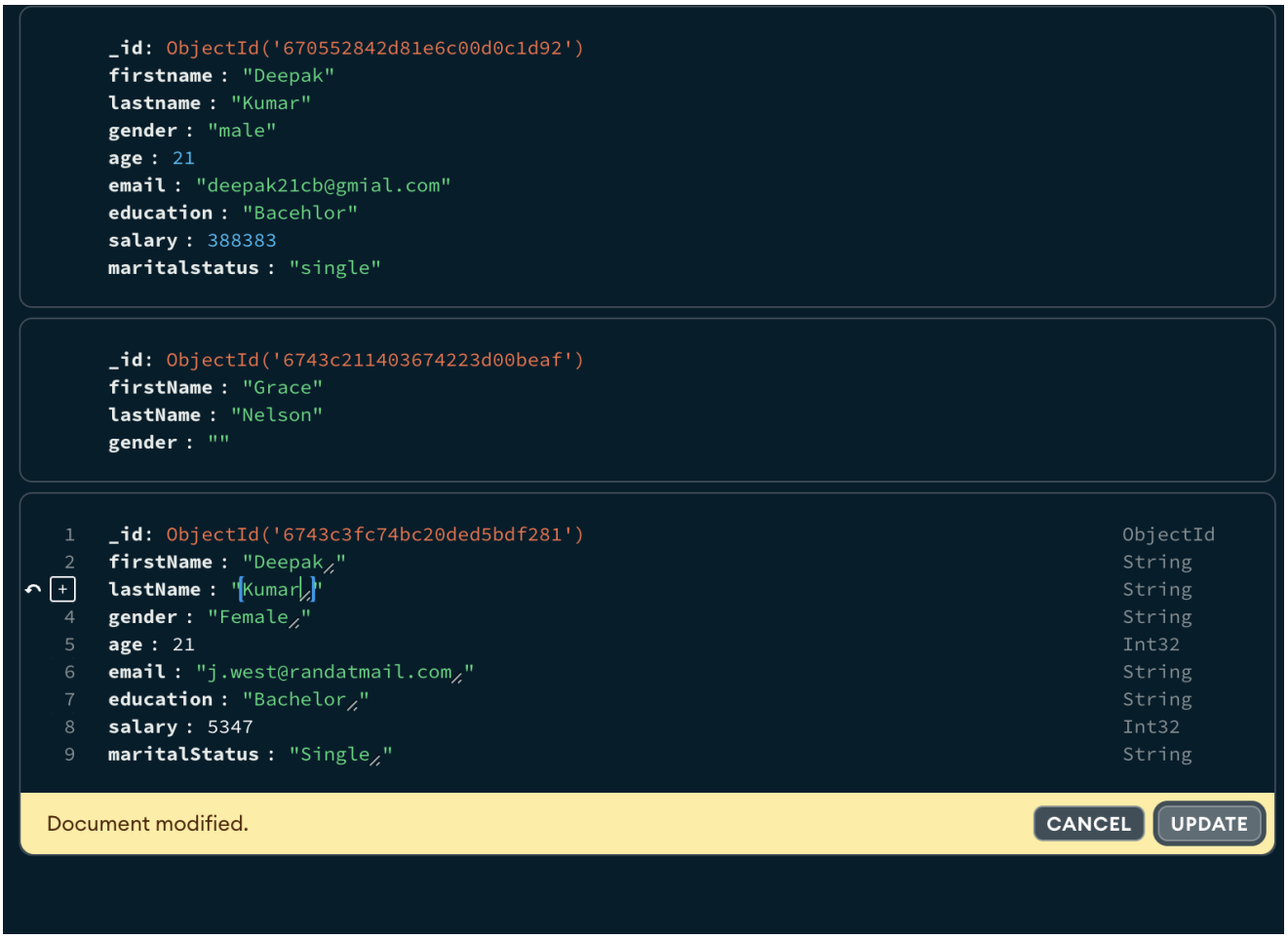
1. Screenshots

a. Inserting a document in the collection:



b. Updating the document:



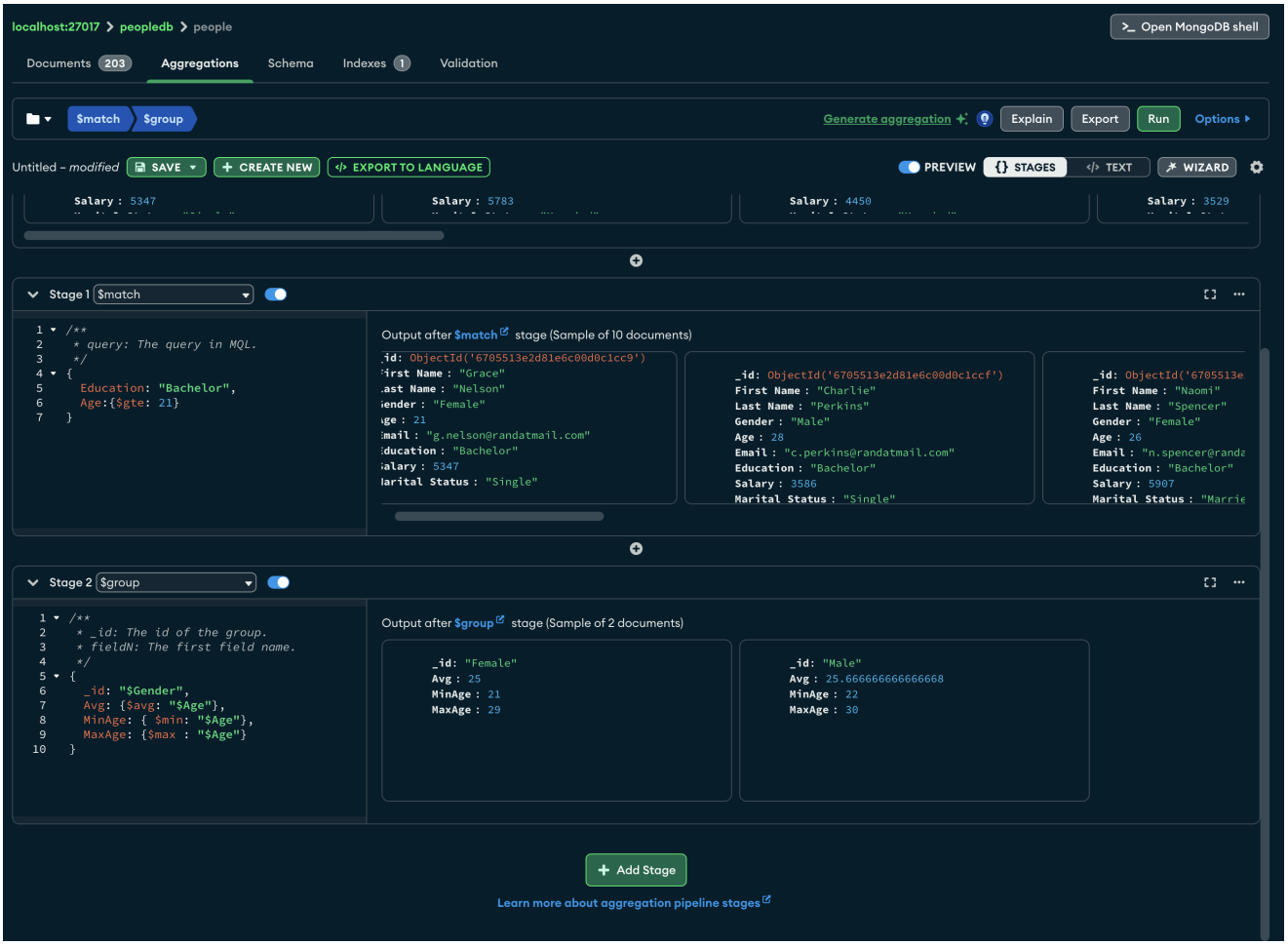
c. Deleting the documents:

d. Aggregation:

Aggregation to filter the data using $match and $group key stages.

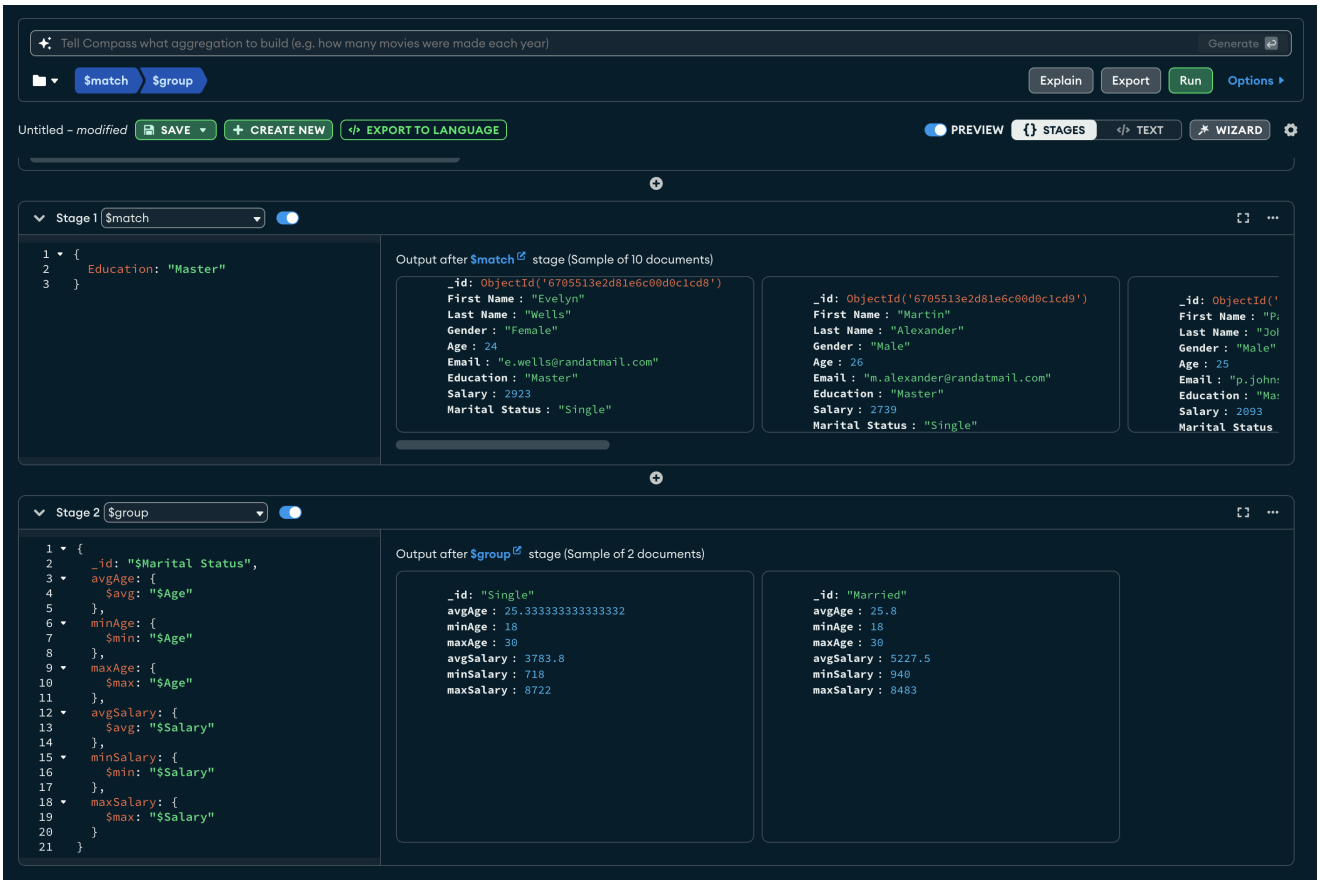
$match: It filters documents to pass only those that match specified criteria.

$group: It groups documents by a specified field (or fields).

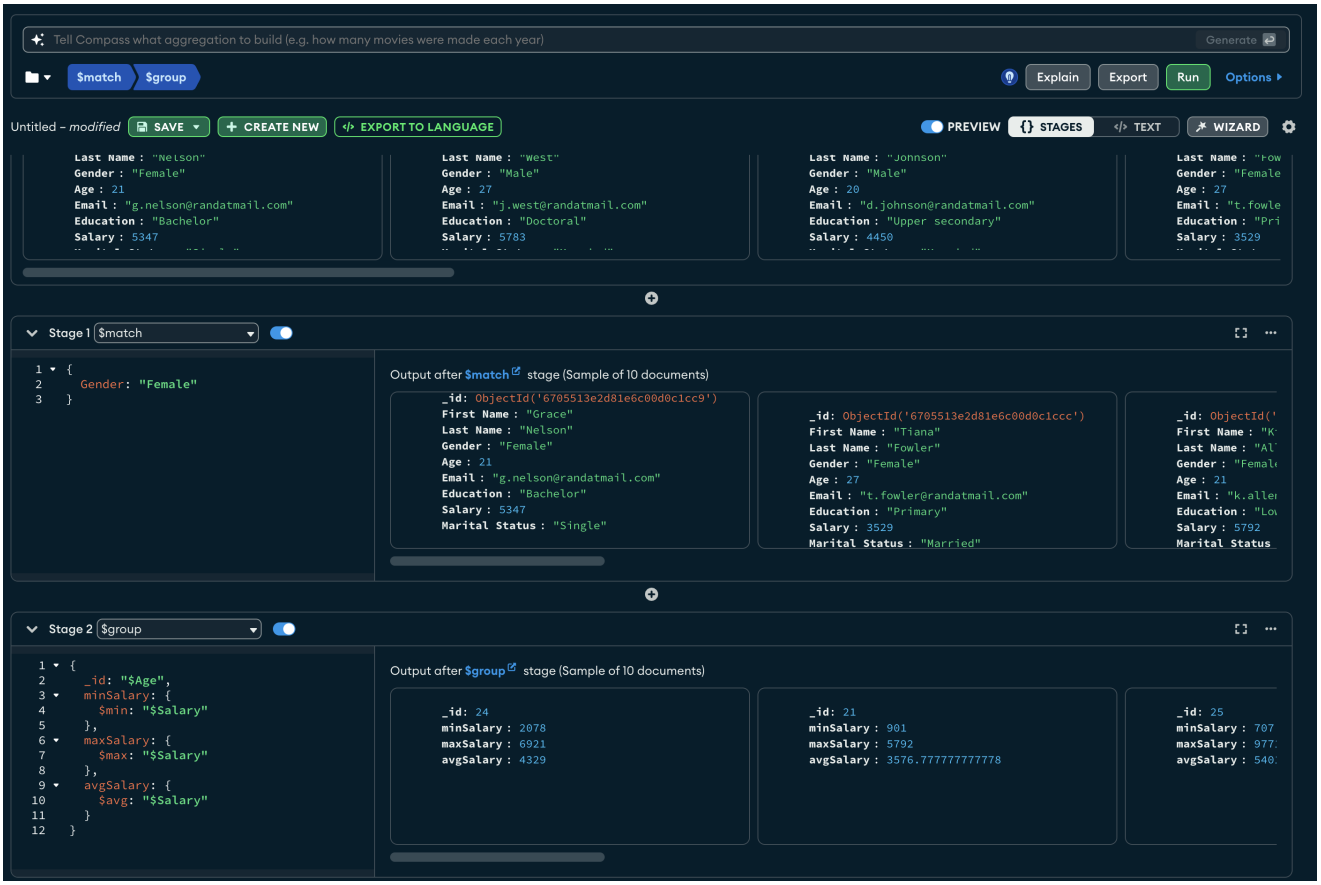


MongoDB queries for the following using either command shell:

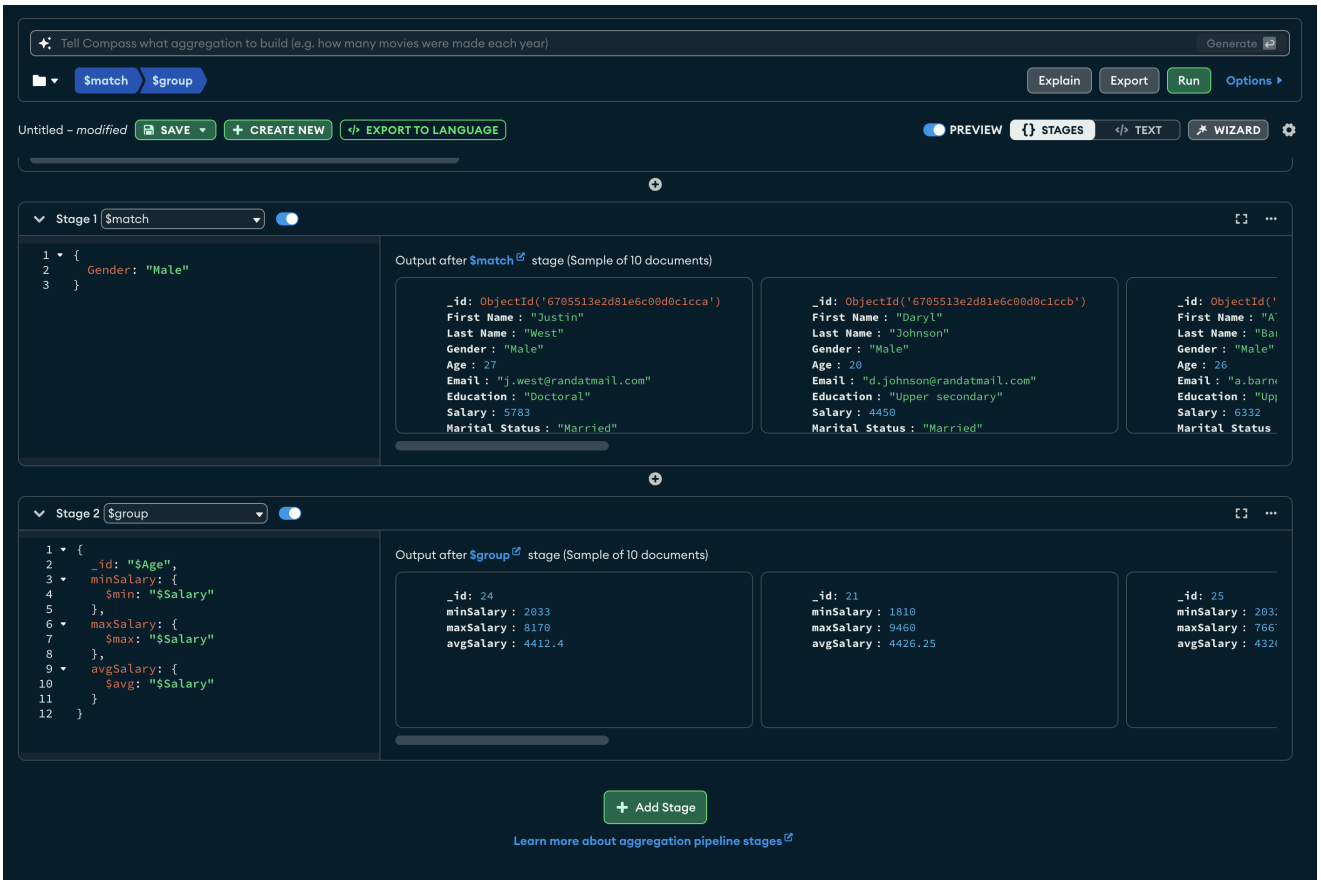
1. Repeat the same process to search Education for Master and .Find the avg,min,max age and avg min max Salary of the people group by Marital status.



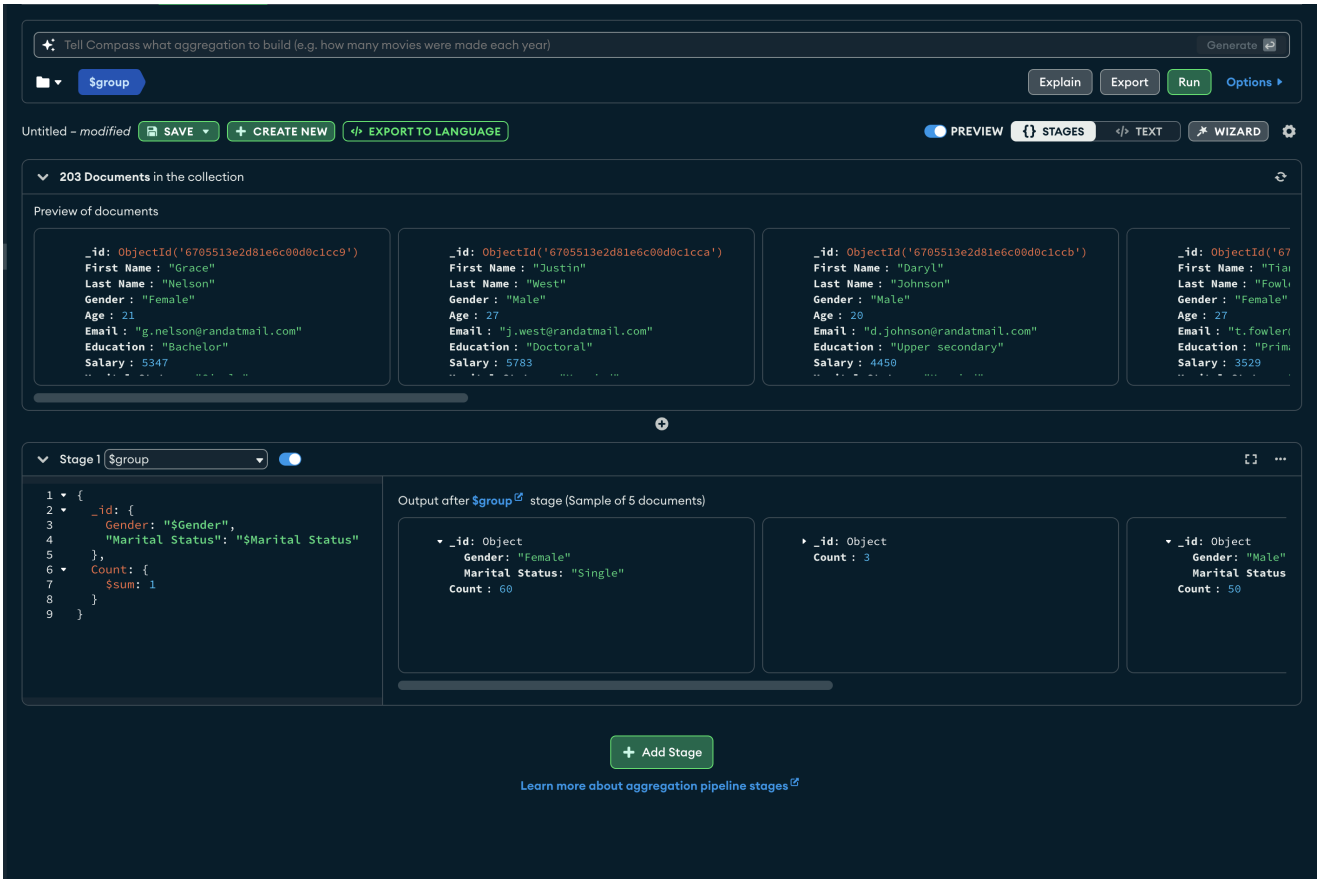
2. Find min,max average salary of each age group of female.



3. Find min,max average salary of each age group of male.



4. Count married and unmarried females and males.



2. Reflection

In the week 2 lab session, I learned how to install and work with MongoDB Compass. The first step was to create a database in there and upload a CSV file into a collection. This taught me how MongoDB handles data differently from relational databases such as SQL (which i am familiar with from my other module).

I learned inserting, updating, and deleting documents— which improved my understanding of CRUD operations. In aggregation pipeline, which I learned how to filter and group data to calculate average, minimum, and maximum values based on various criteria. Overall, this lab introduced me to how MongoDB offers dynamic handling of unstructured data.