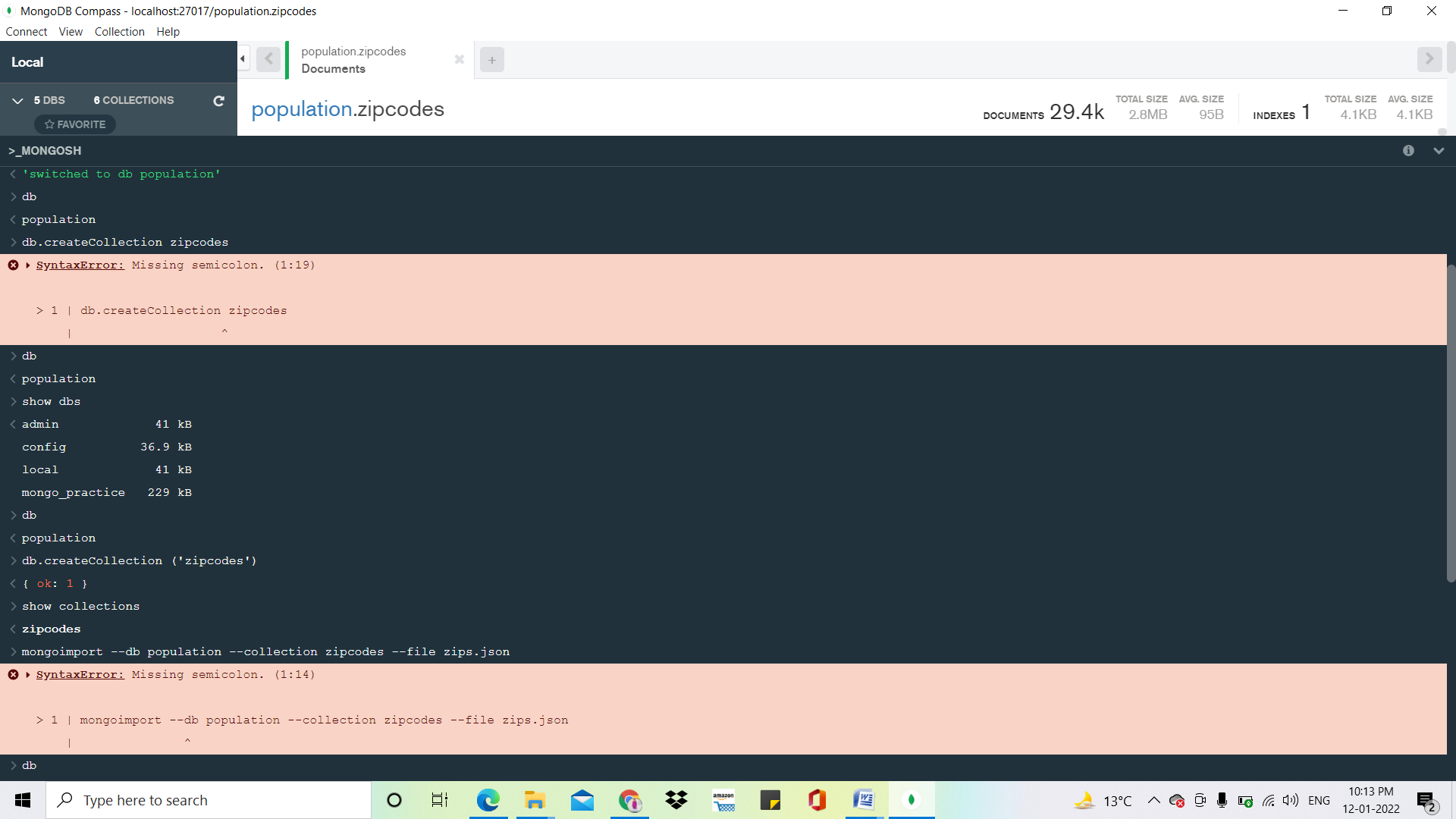
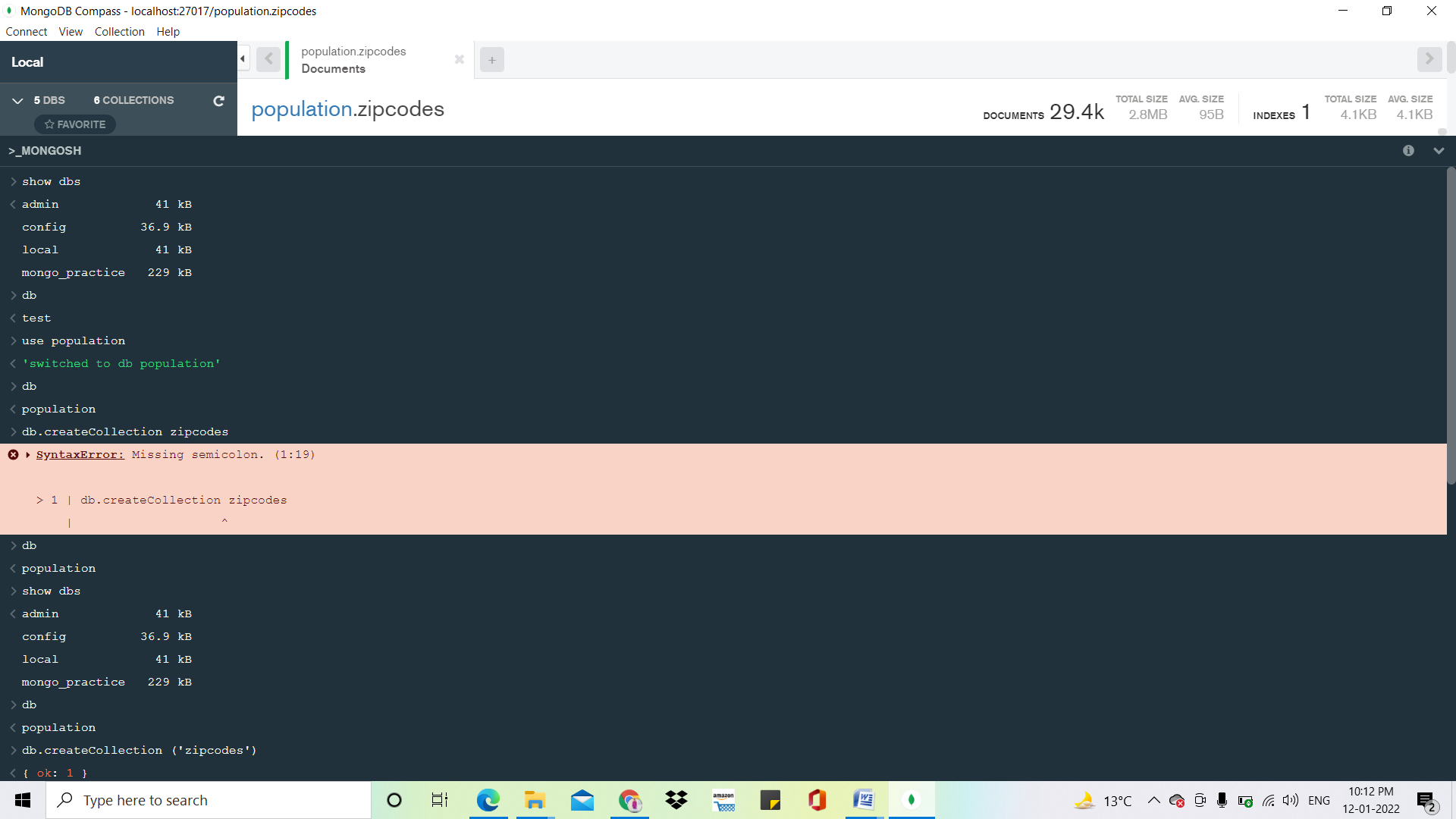
**Pratik Chavhan**

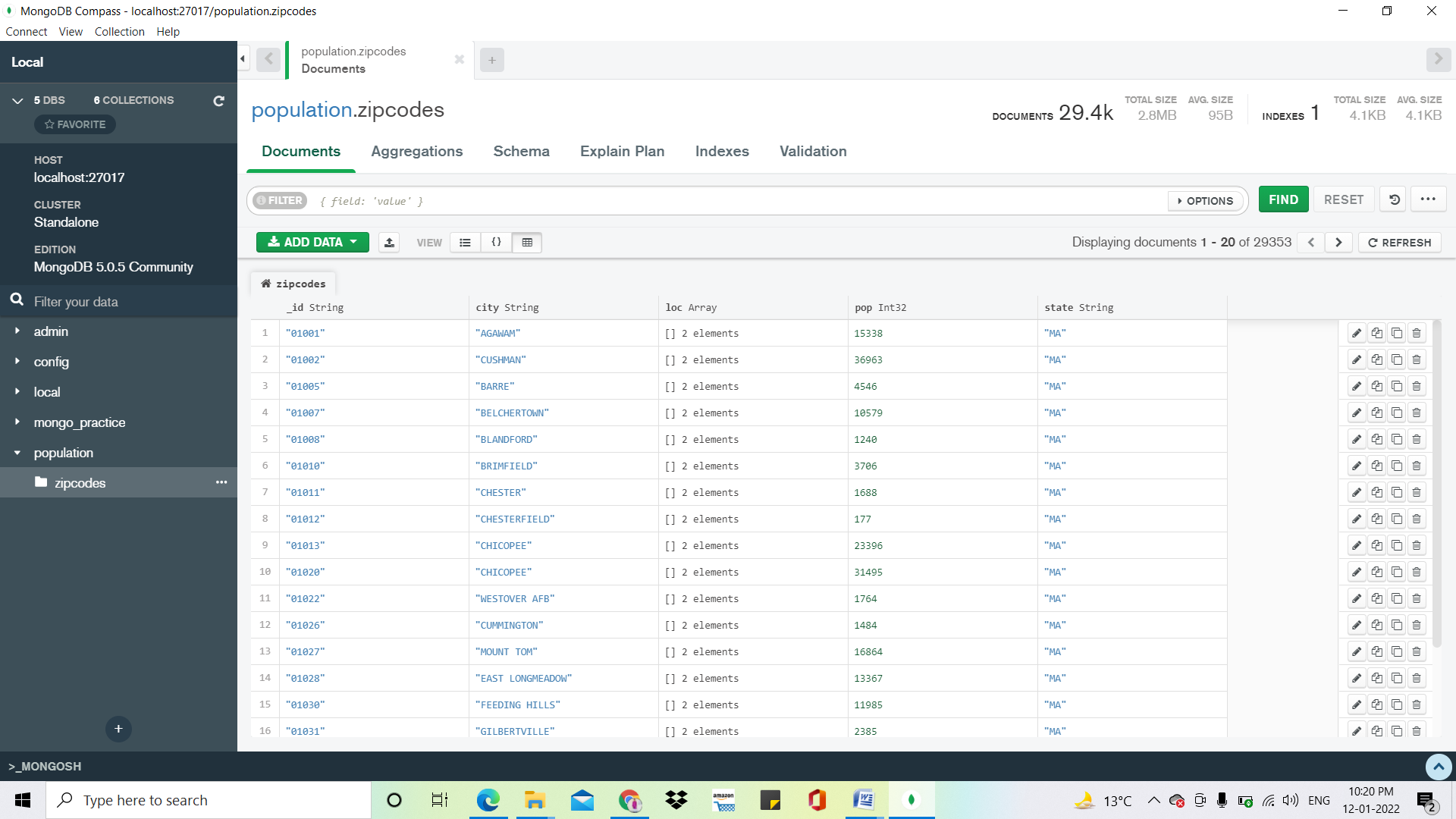
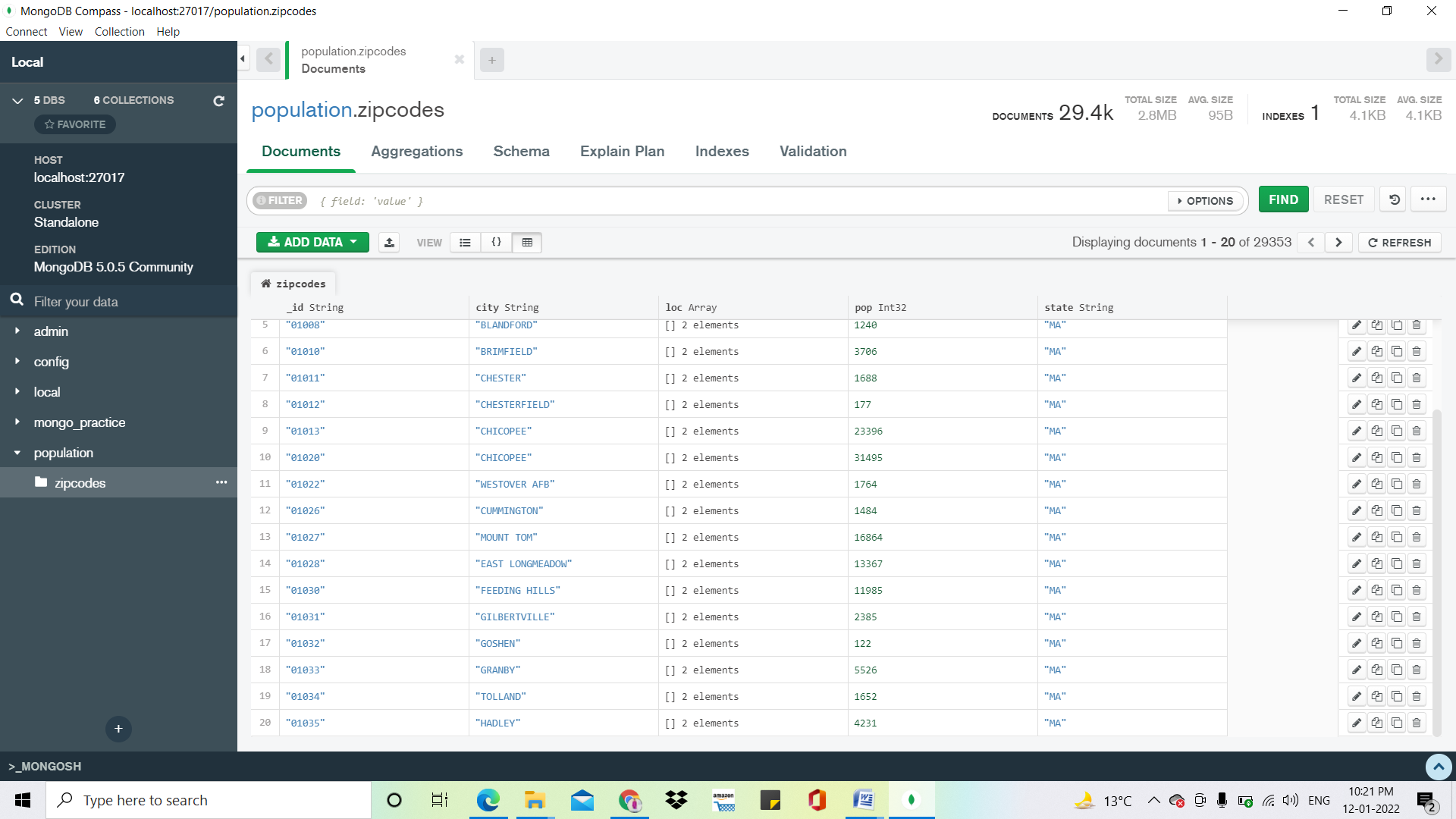
**MongoDB -Aggregation Exercises**

Import the zips.json file into your MongoDB. Database name is "population" and

collection name is "zipcodes".

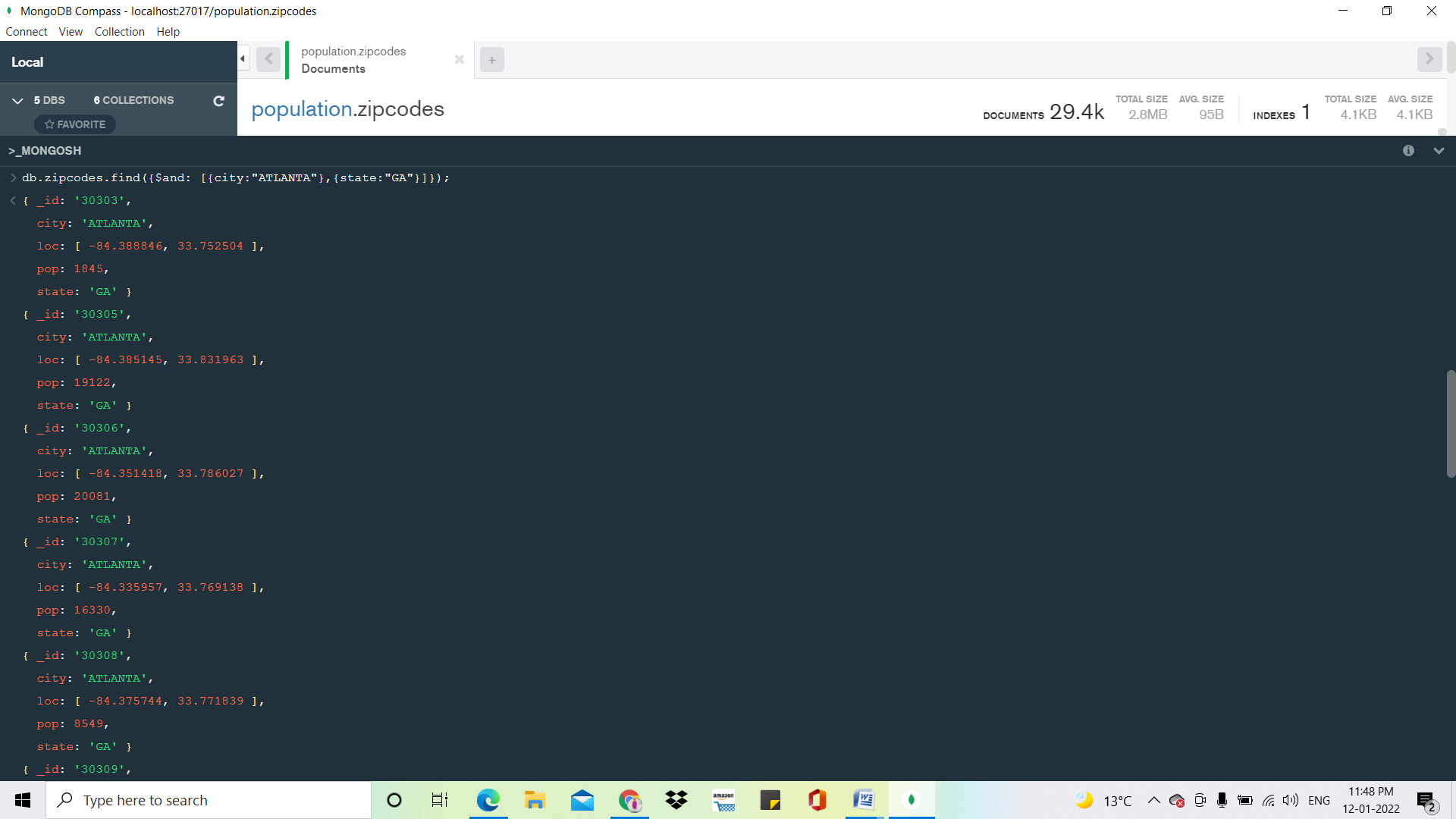
mongoimport --db population --collection zipcodes --file zips.json

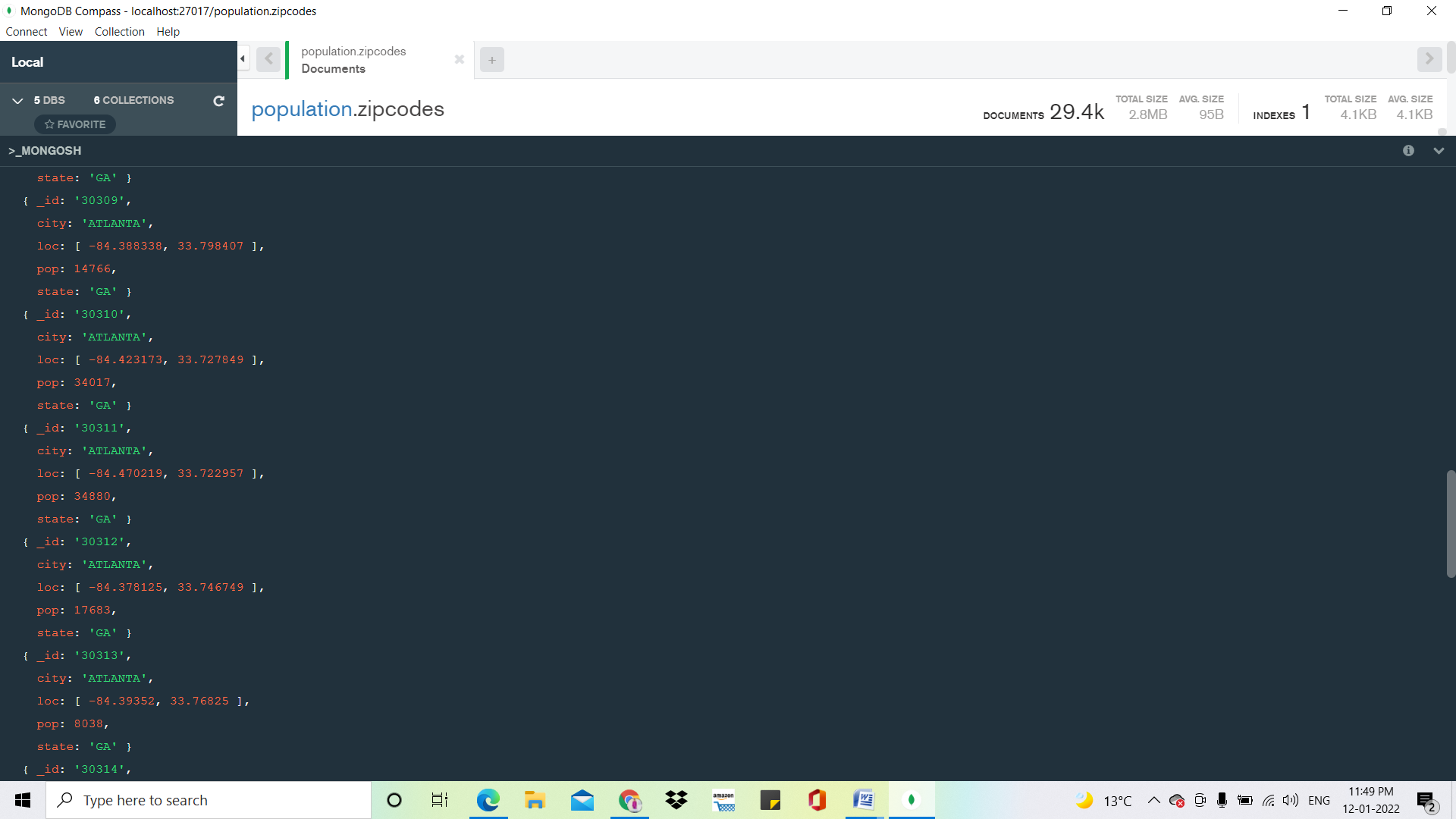
****

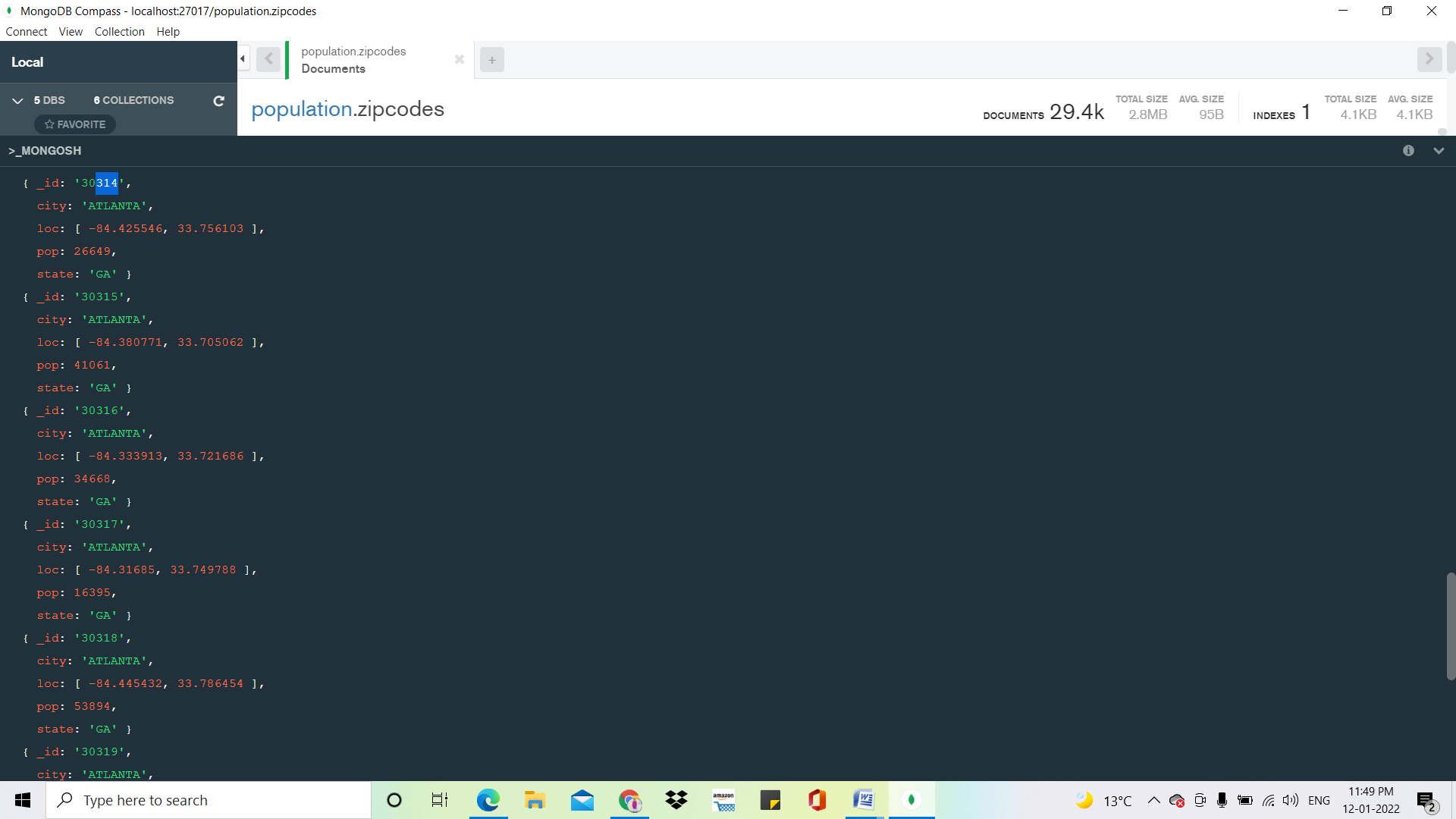
****

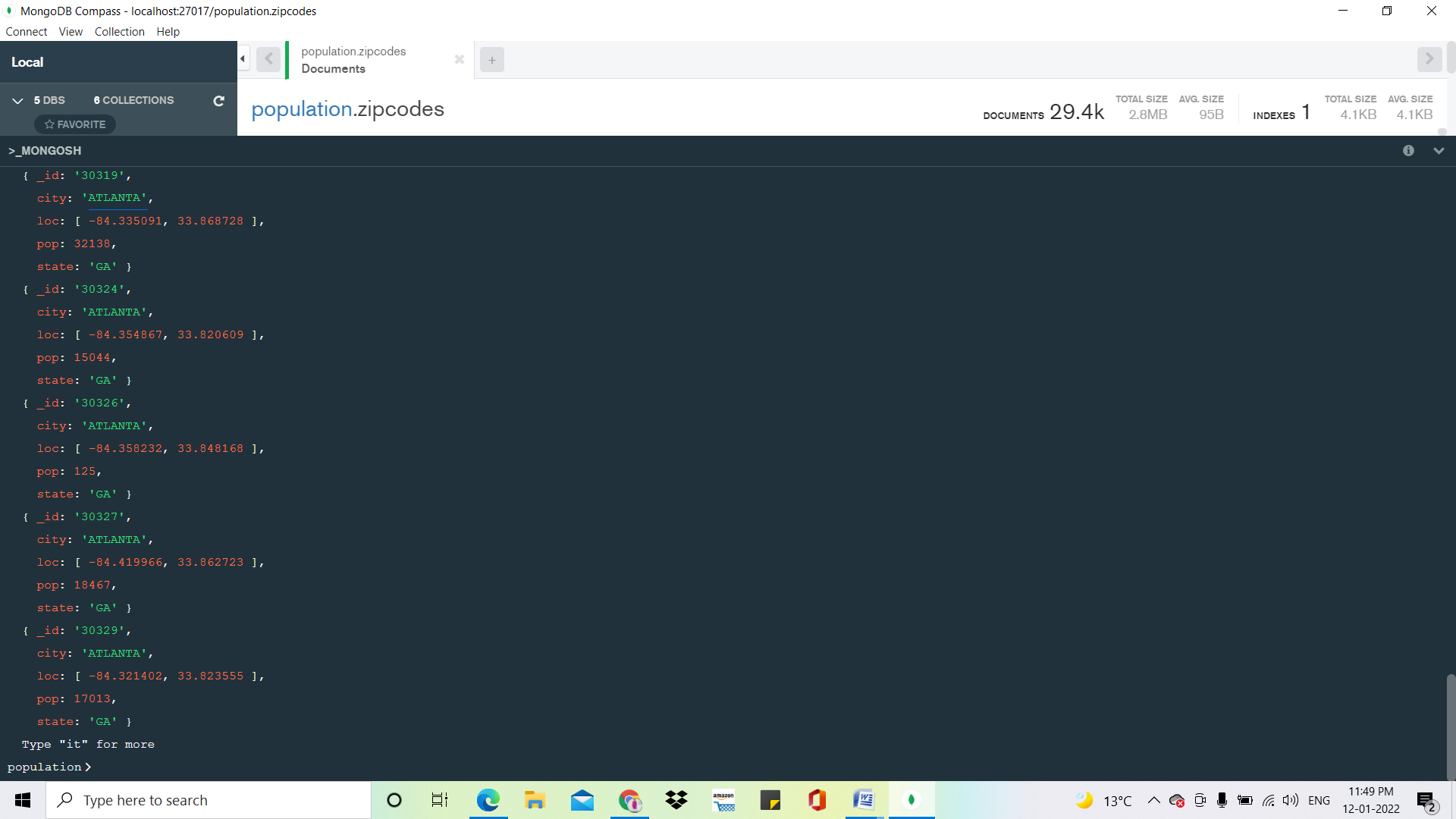
**Atlanta Population**

1. use db.zipcodes.find() to filter results to only the results where city is ATLANTA and state is GA.

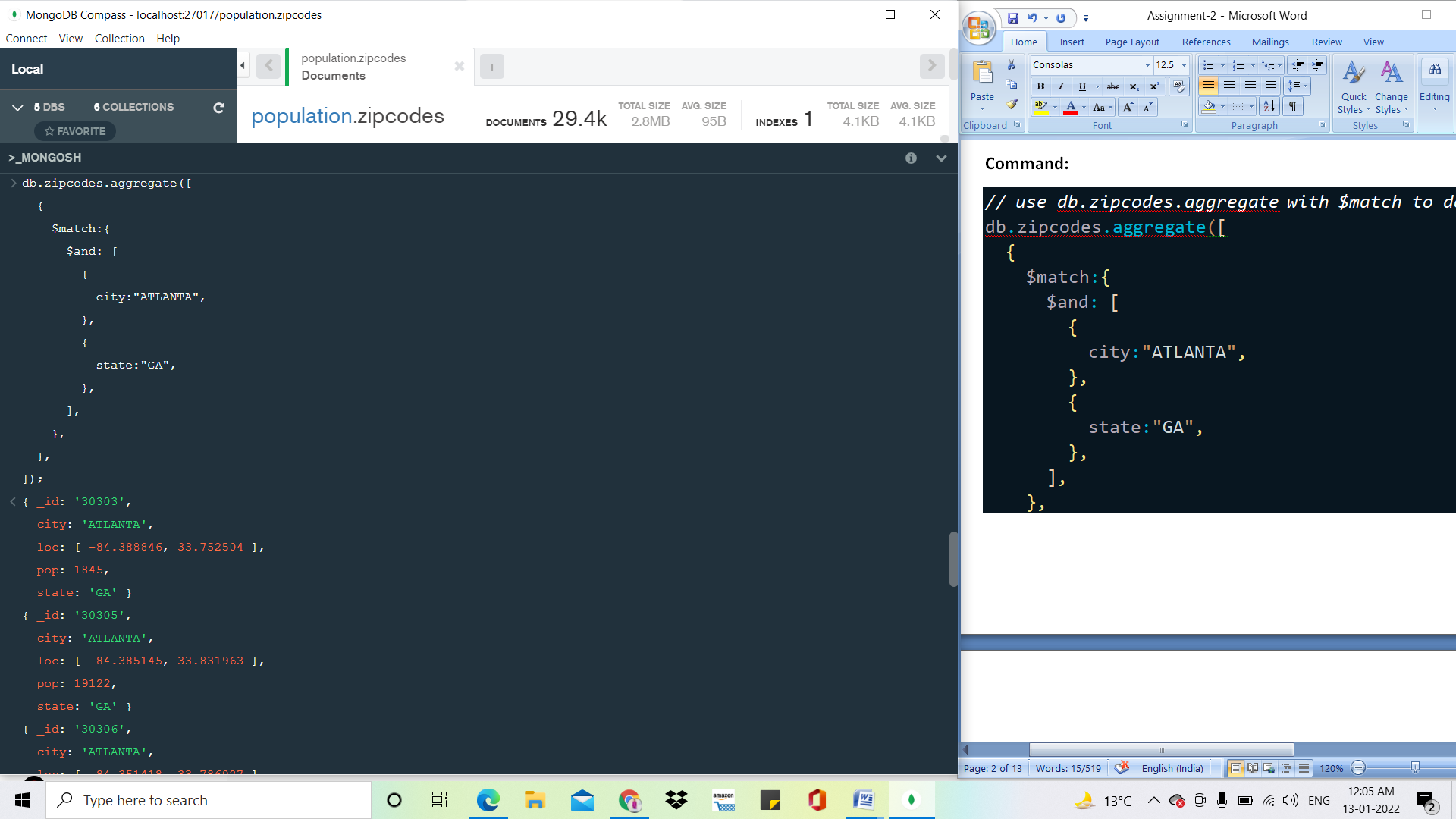


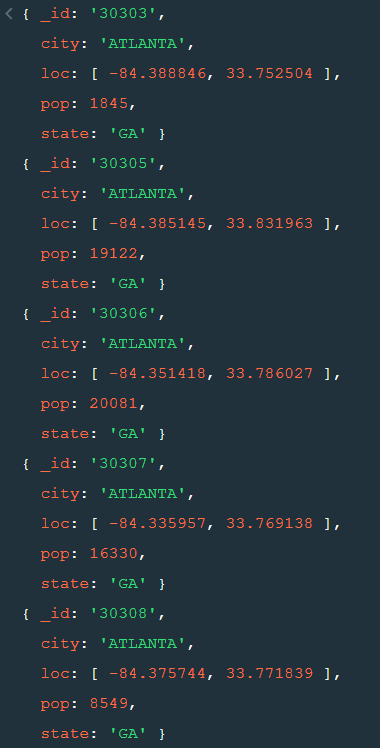


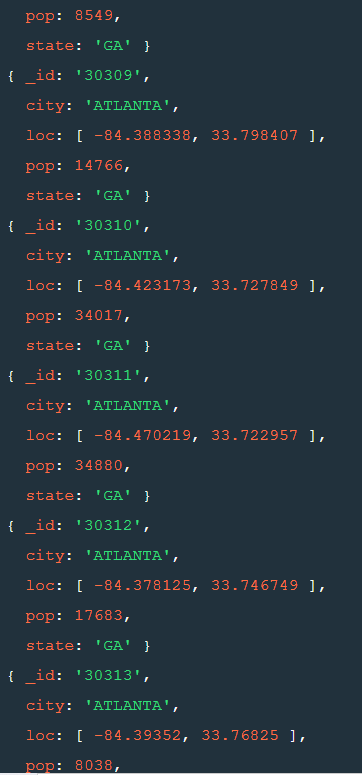


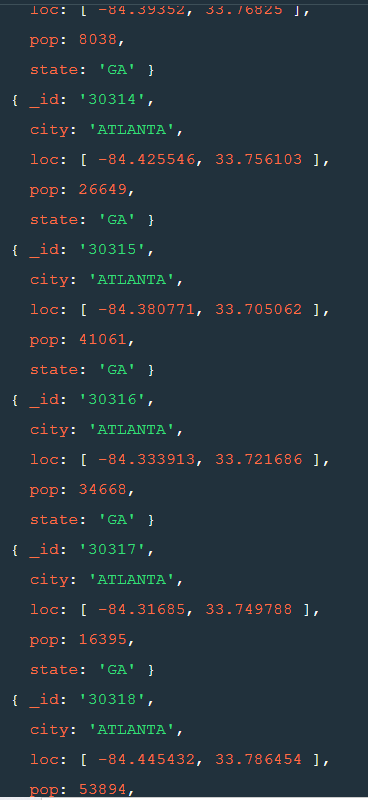


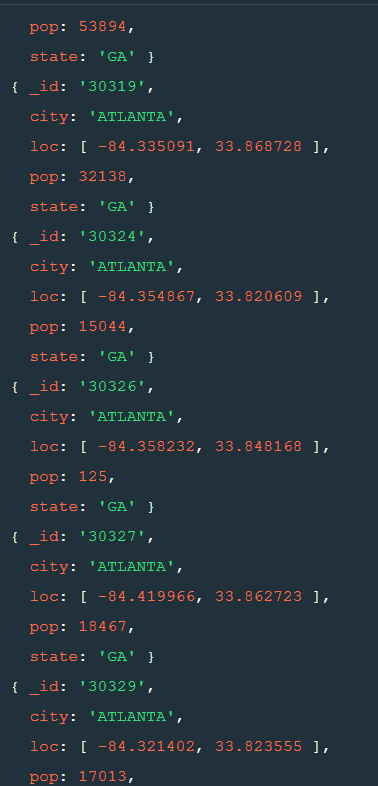
2. use db.zipcodes.aggregate with $match to do the same as above.



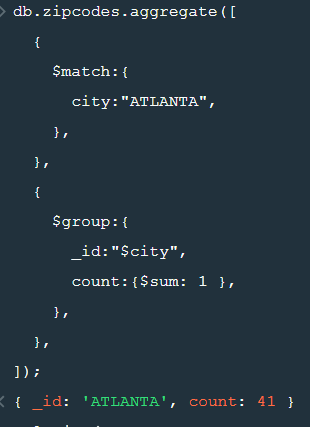




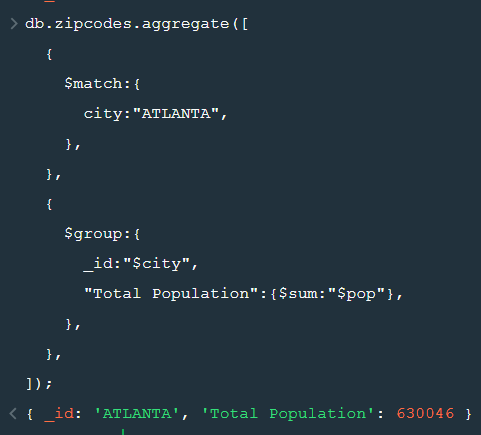




3. use $group to count the number of zip codes in Atlanta.

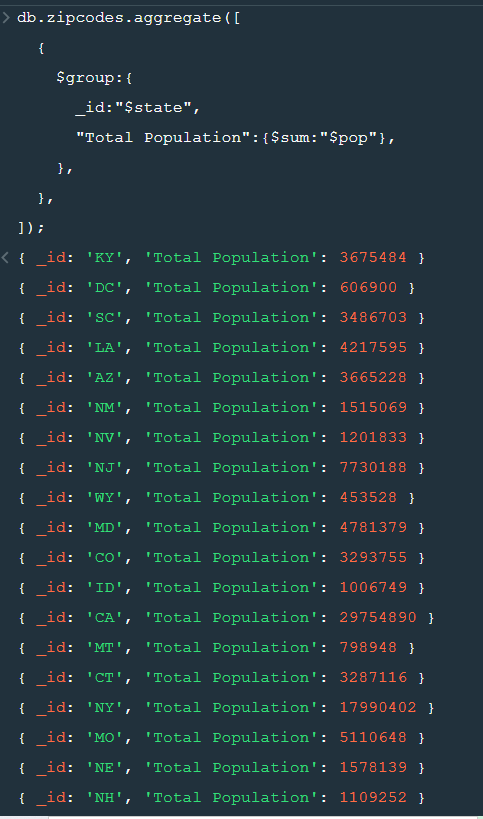


4. use $group to find the total population in Atlanta.

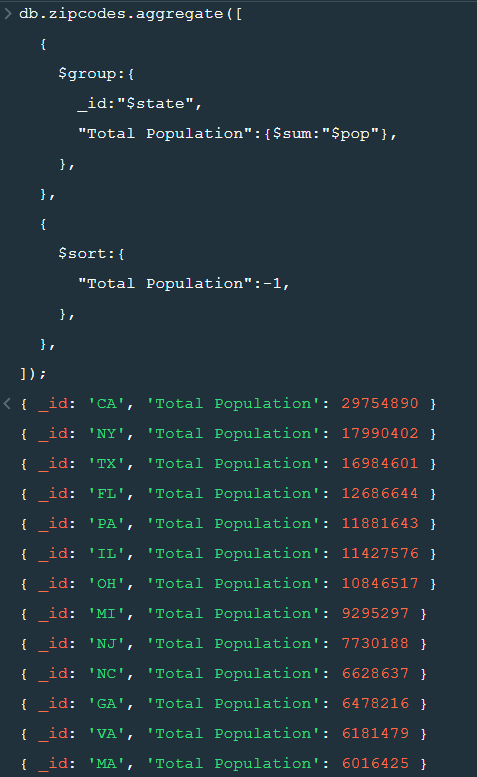
****

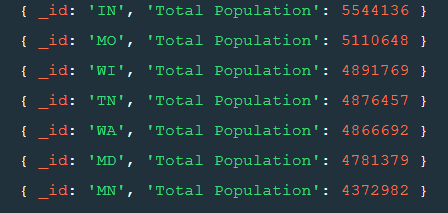
**Populations By State**

1. use aggregate to calculate the total population for each state

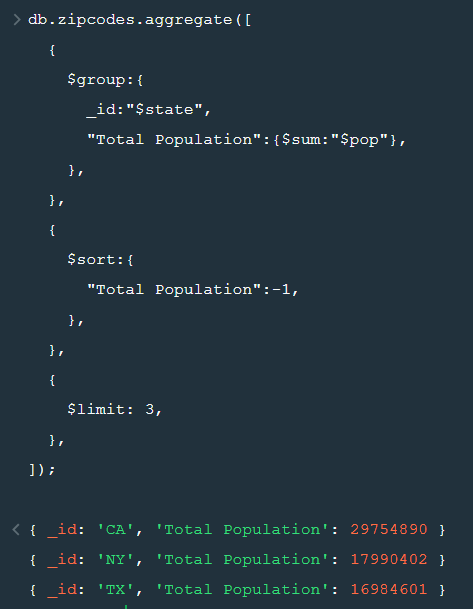


2. sort the results by population, highest first



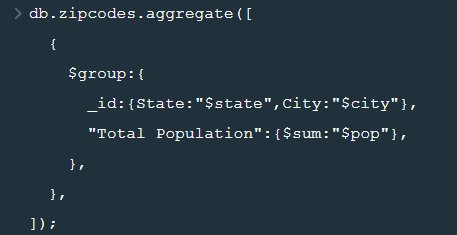


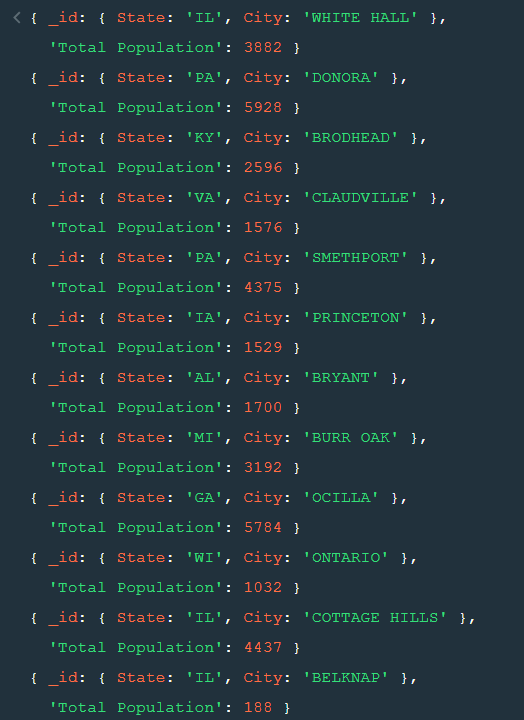
3. limit the results to just the first 3 re sults. What are the top 3 states population?



**Populations by City**

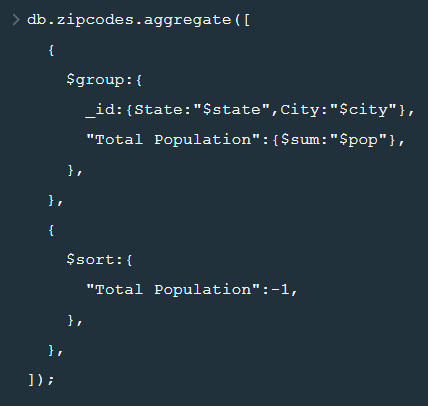
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city', state: '$state' }

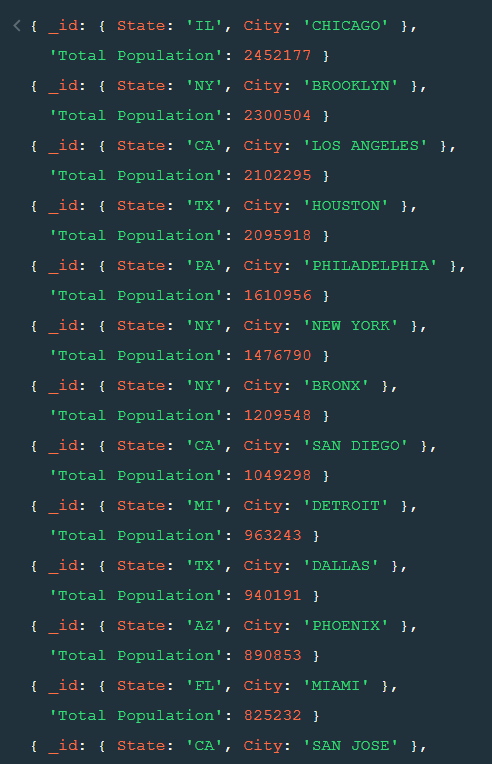


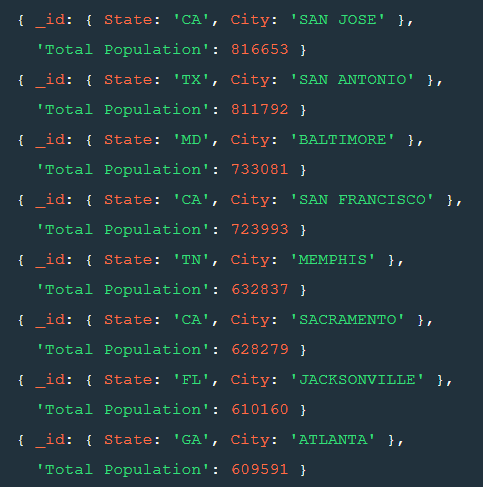




2. sort the results by population, highest first

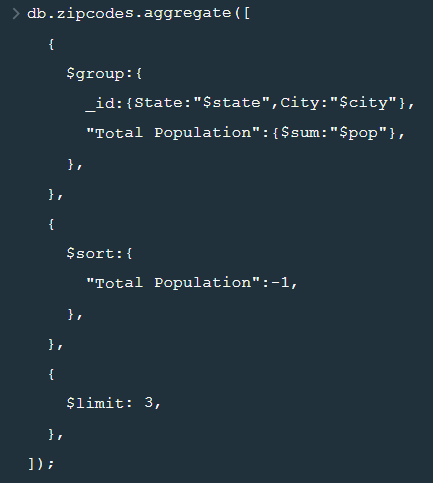




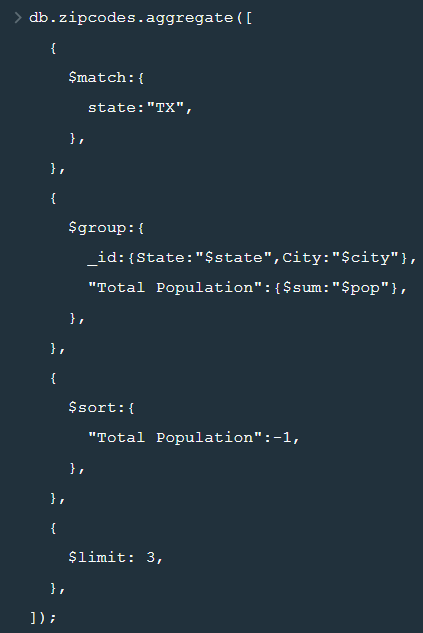


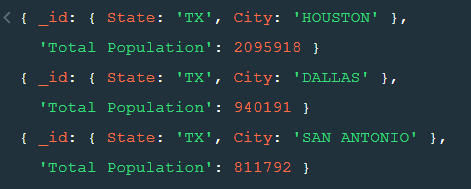
3. limit the results to just the first 3 results. What are the top 3 cities in

population?



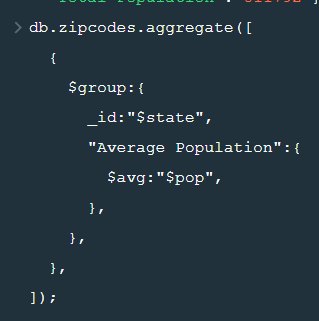


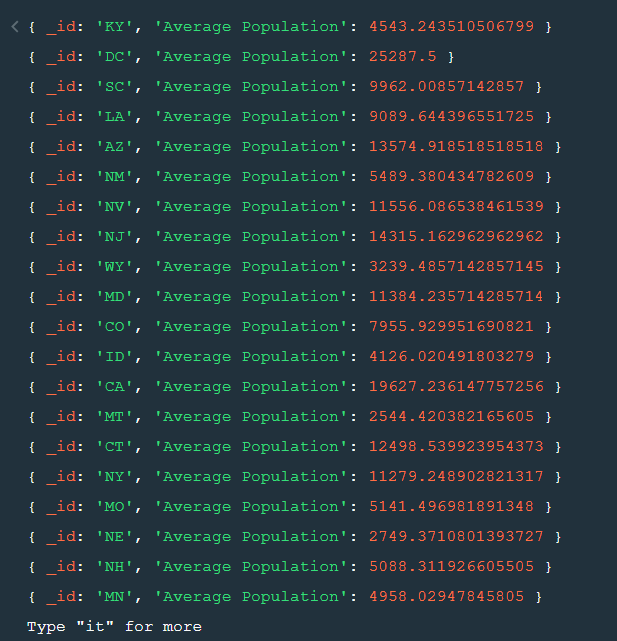
4. What are the top 3 cities in population in Texas? 

****

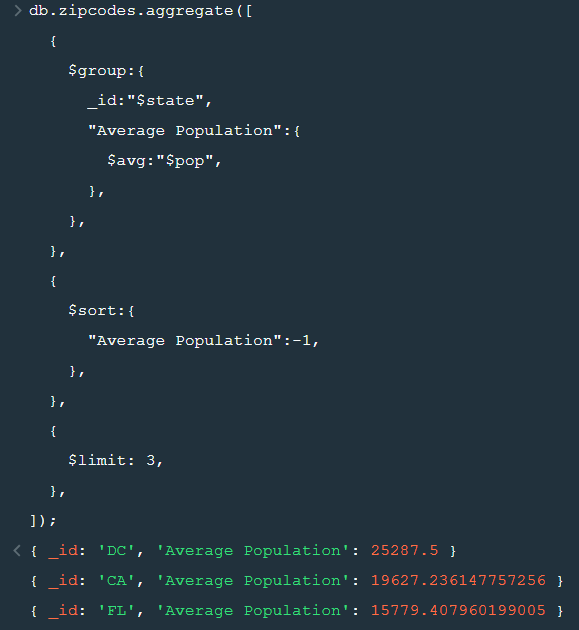
**Bonus**

**1. Write a query to get the average city population for each state.**

****

****

**2. What are the top 3 states in terms of average city population**

****