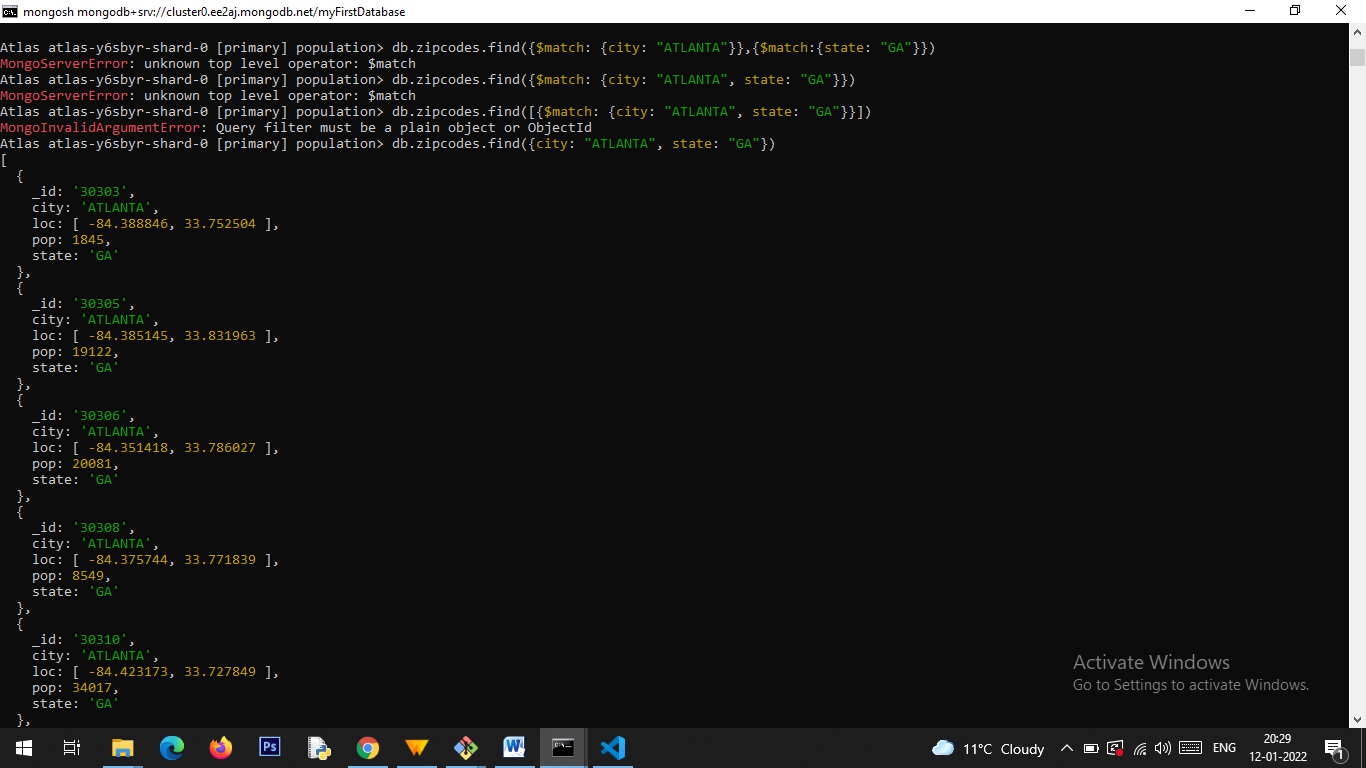
**MongoDB -Aggregation Exercises**

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

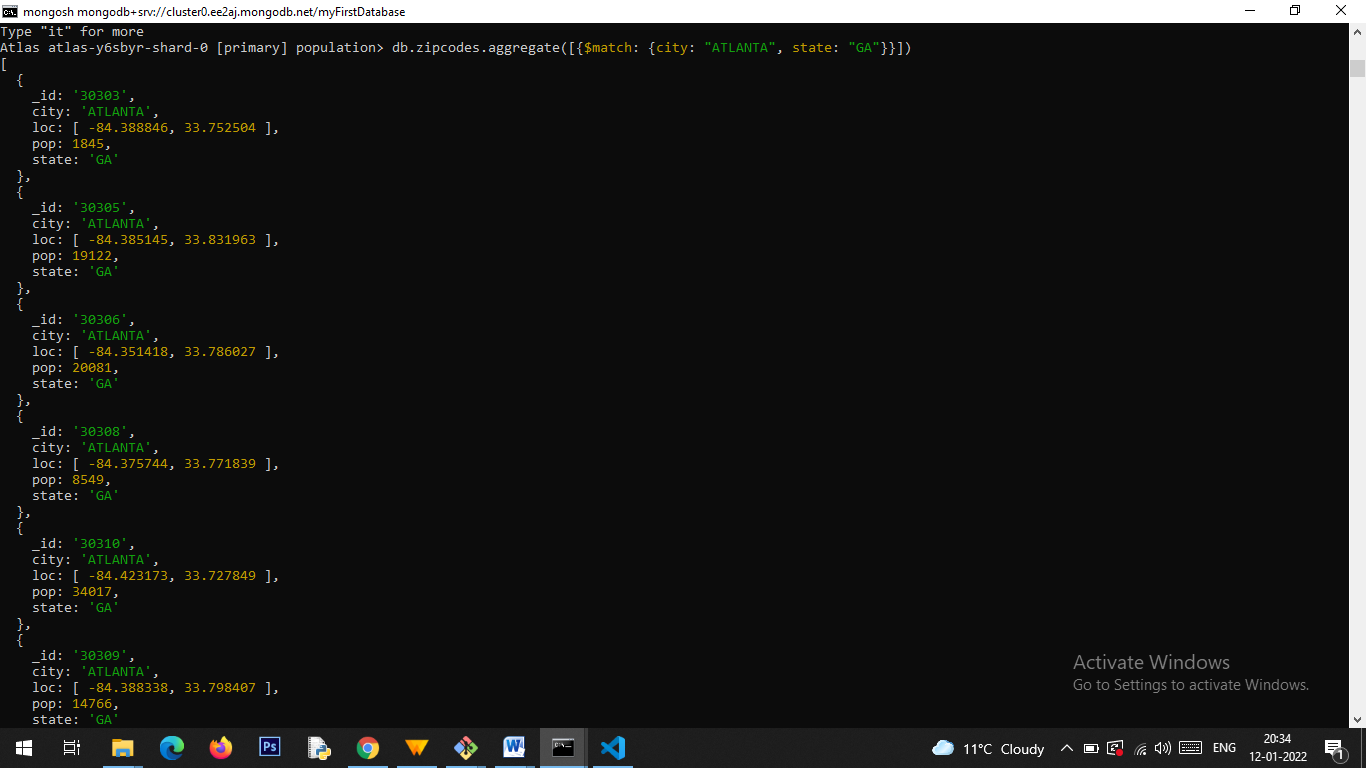
mongoimport --db population --collection zipcodes --file zips.json

**Atlanta Population**

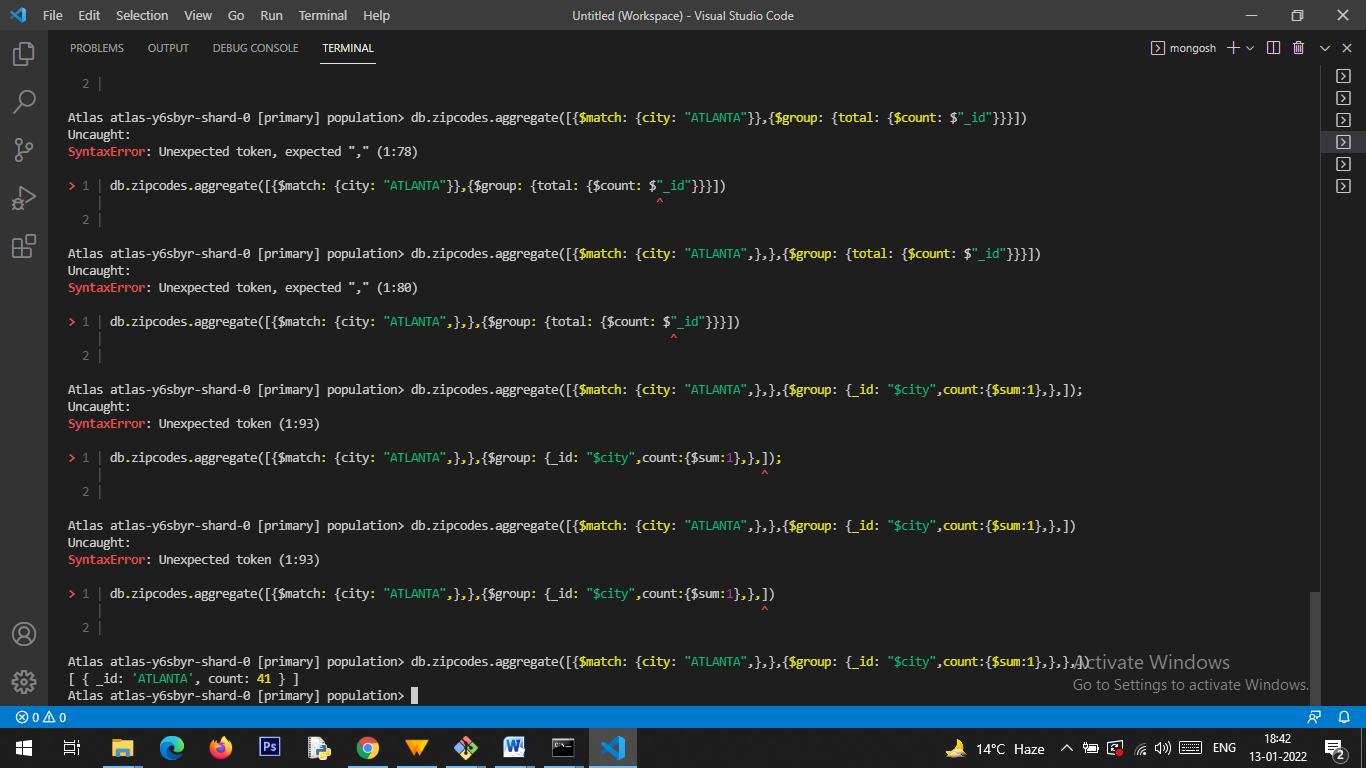
1. use db.zipcodes.find() to filter results to only the results where city is ATLANTA and state is GA.



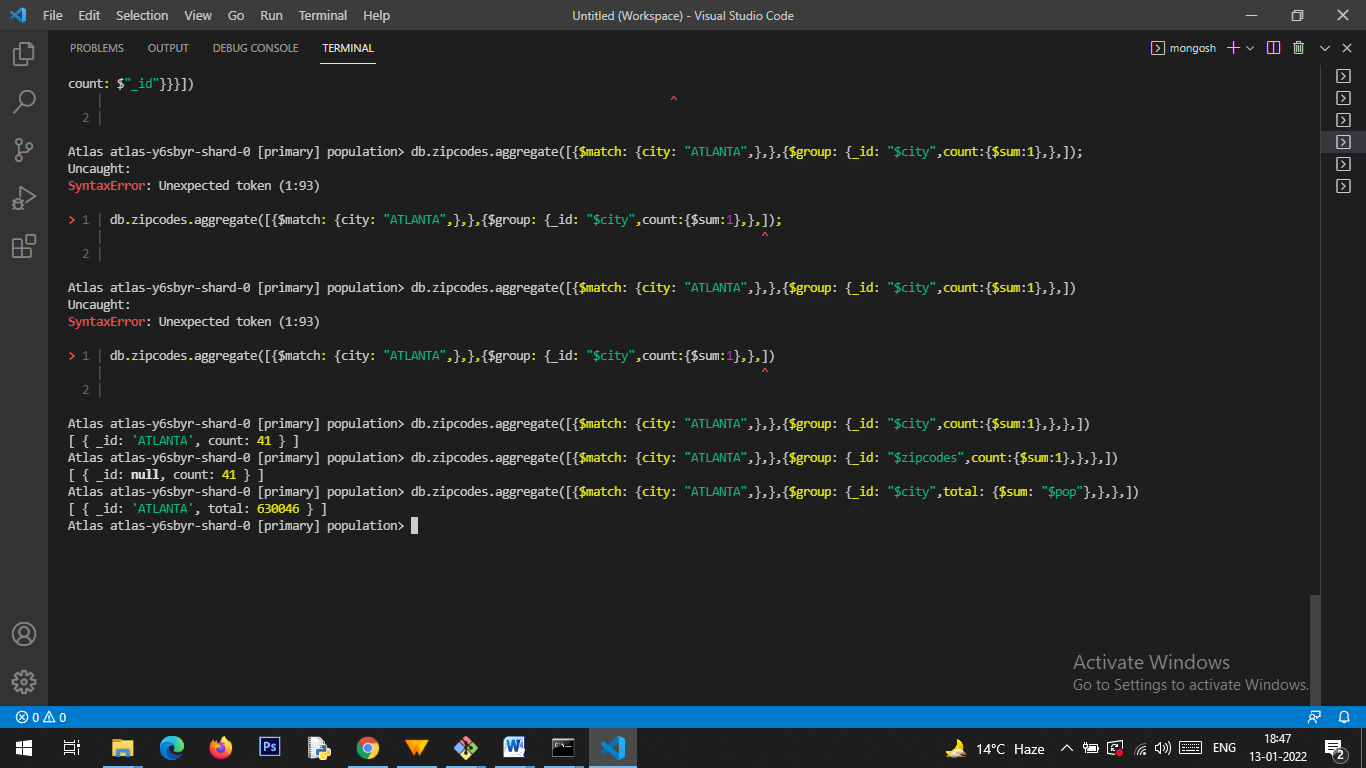
1. use db.zipcodes.aggregate with $match to do the same as above.



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

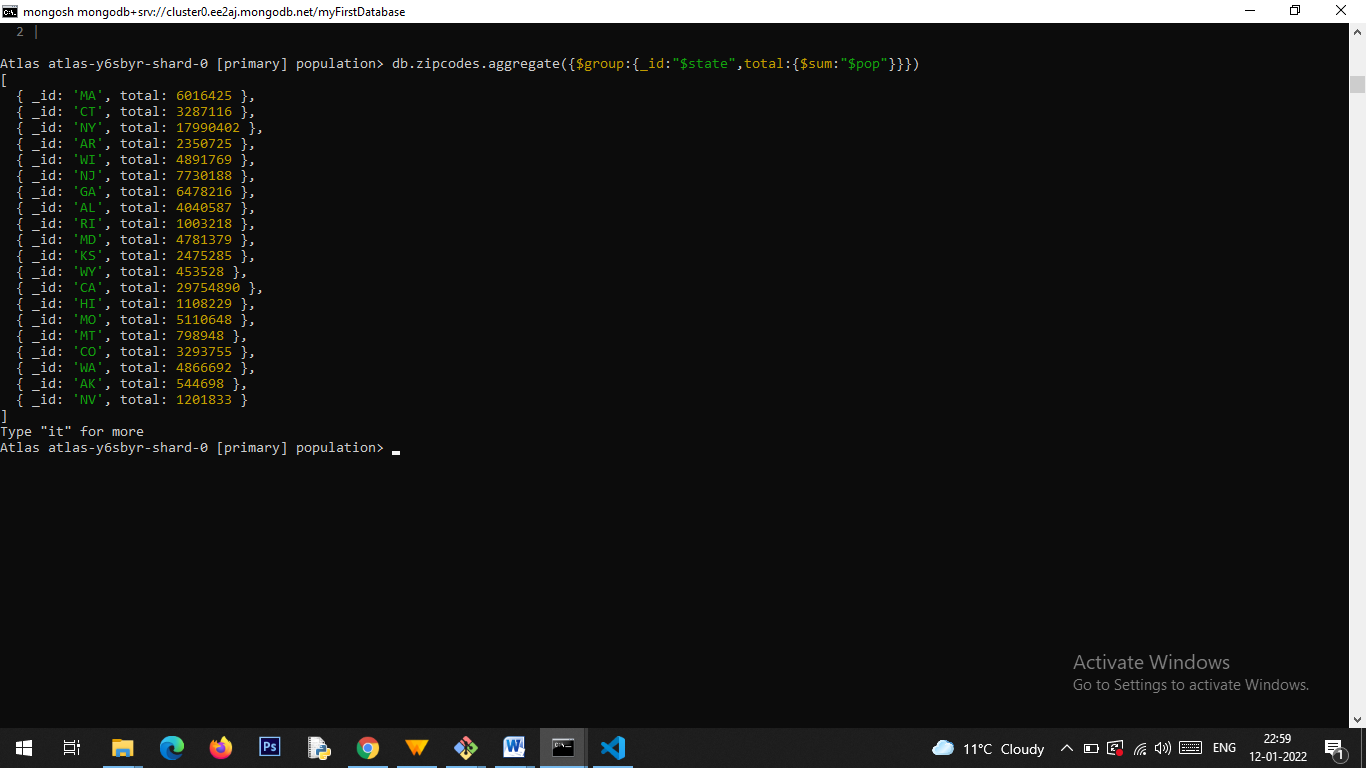


1. use $group to find the total population in Atlanta.

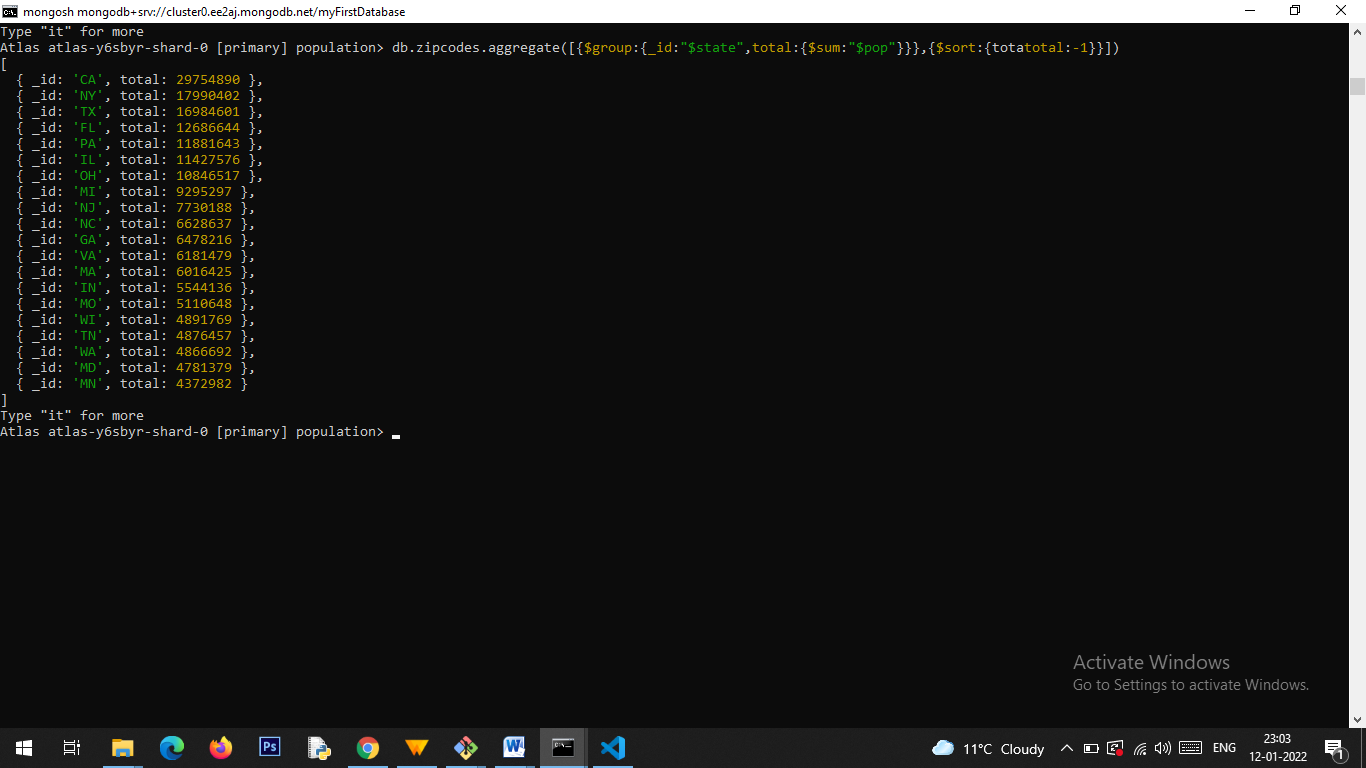


**Populations By State**

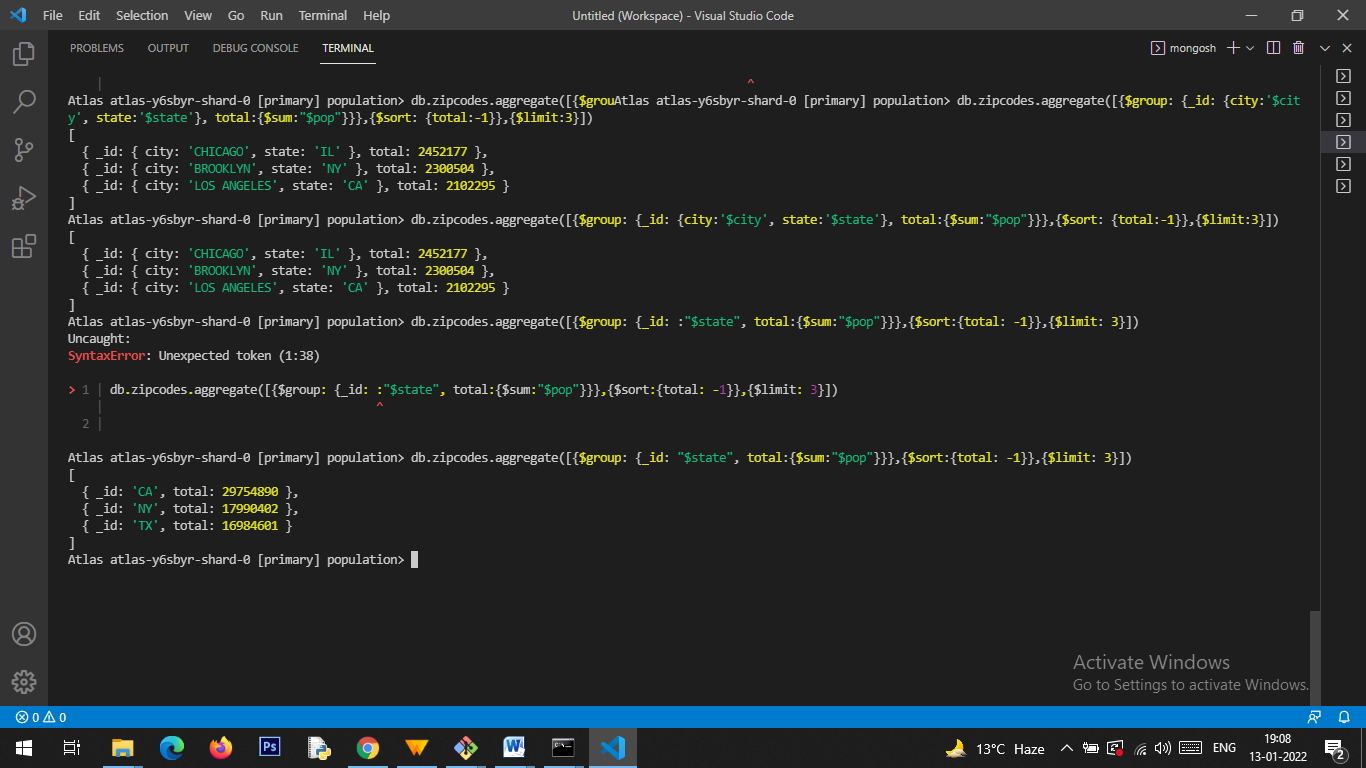
1. use aggregate to calculate the total population for each state



2. sort the results by population, highest first

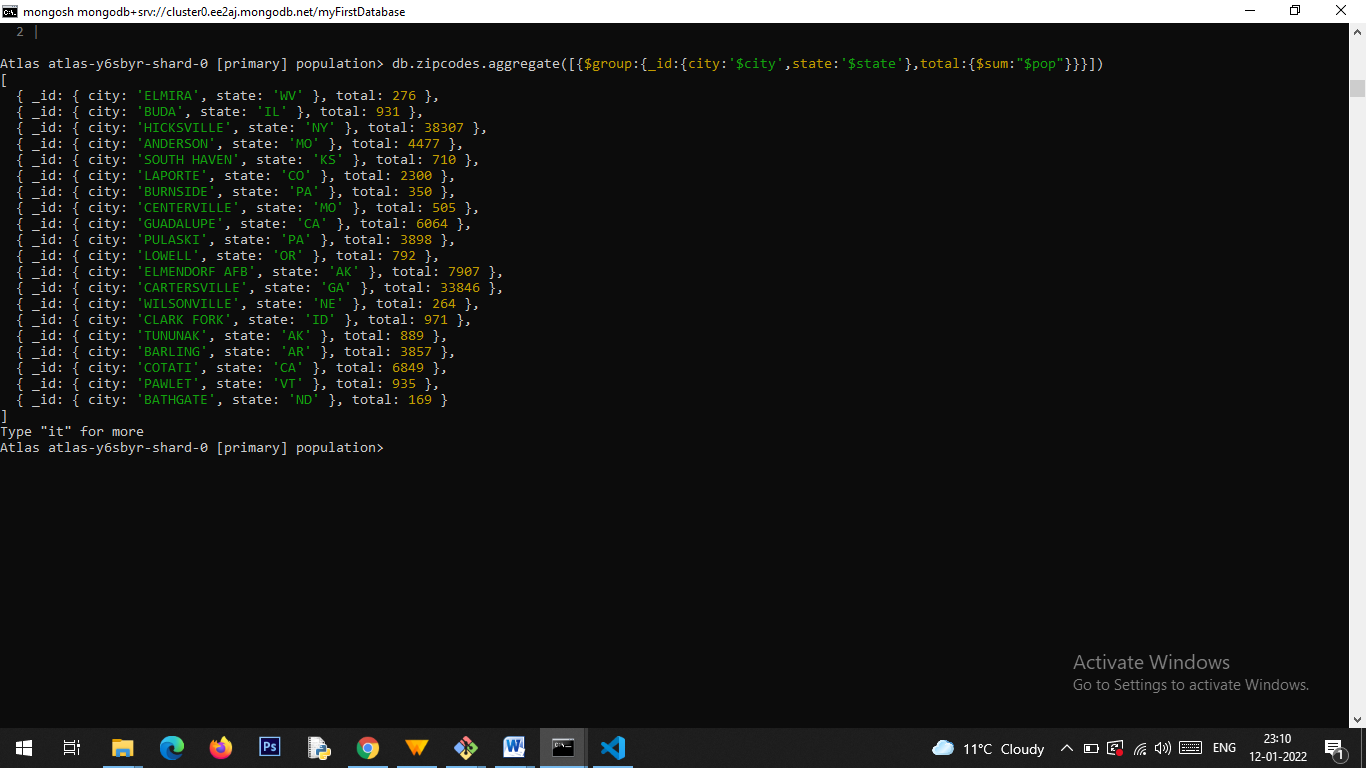


3. limit the results to just the first 3 results. What are the top 3 states in population?

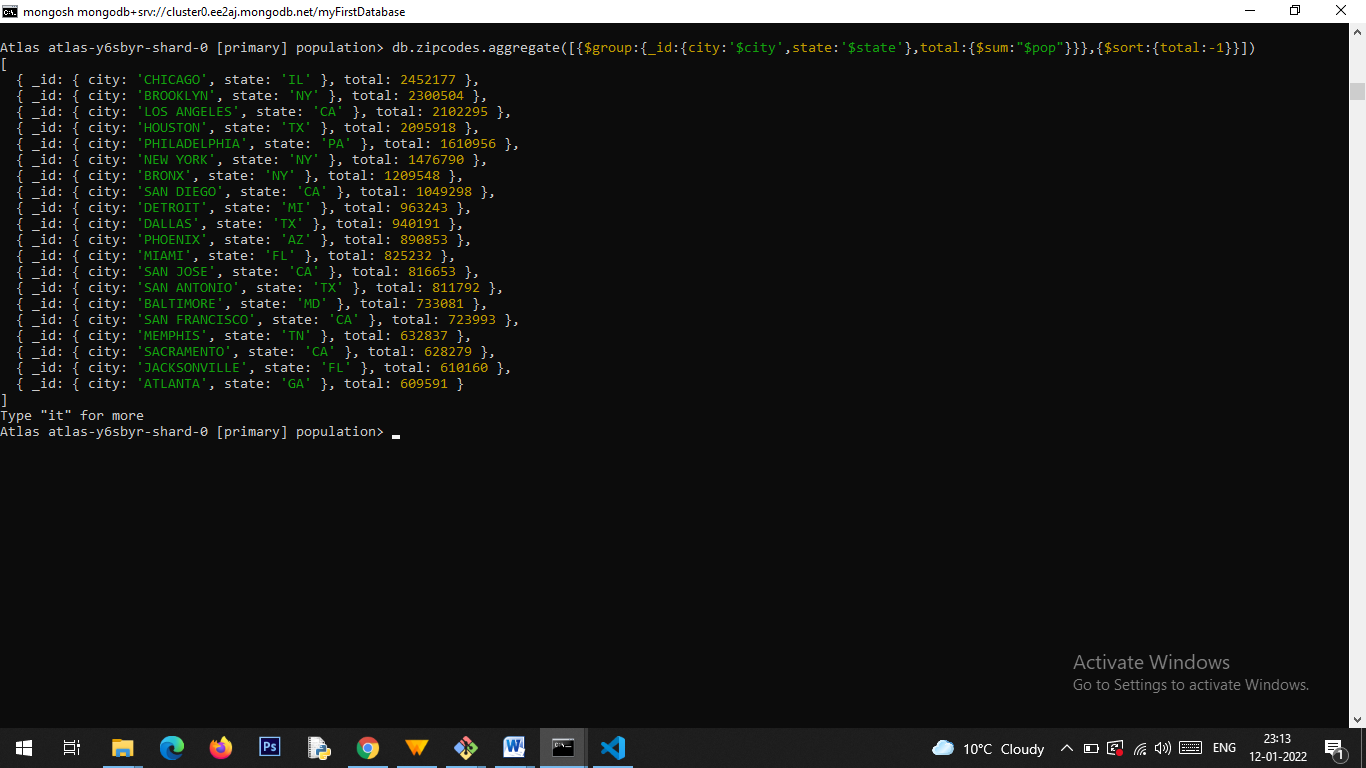


**Populations by City**

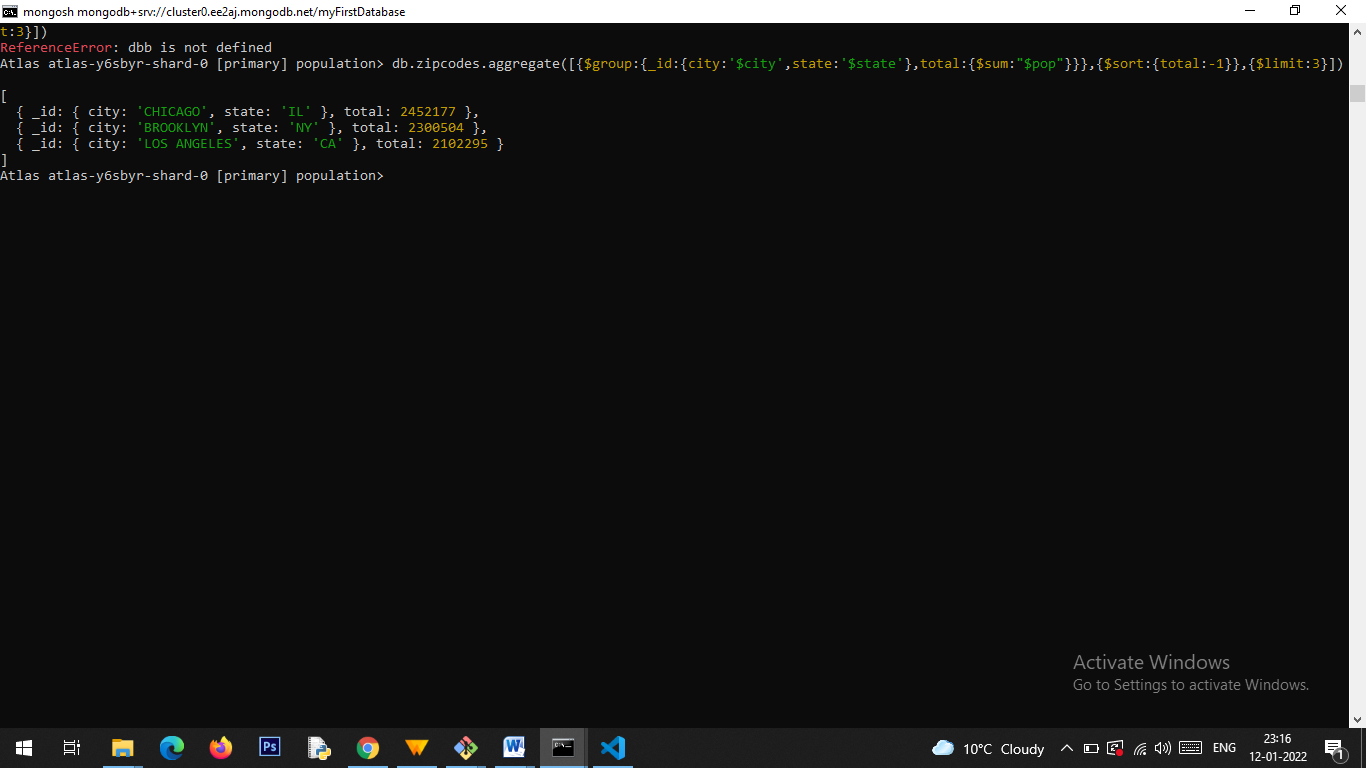
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city', state: '$state' }



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?



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

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| **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?

