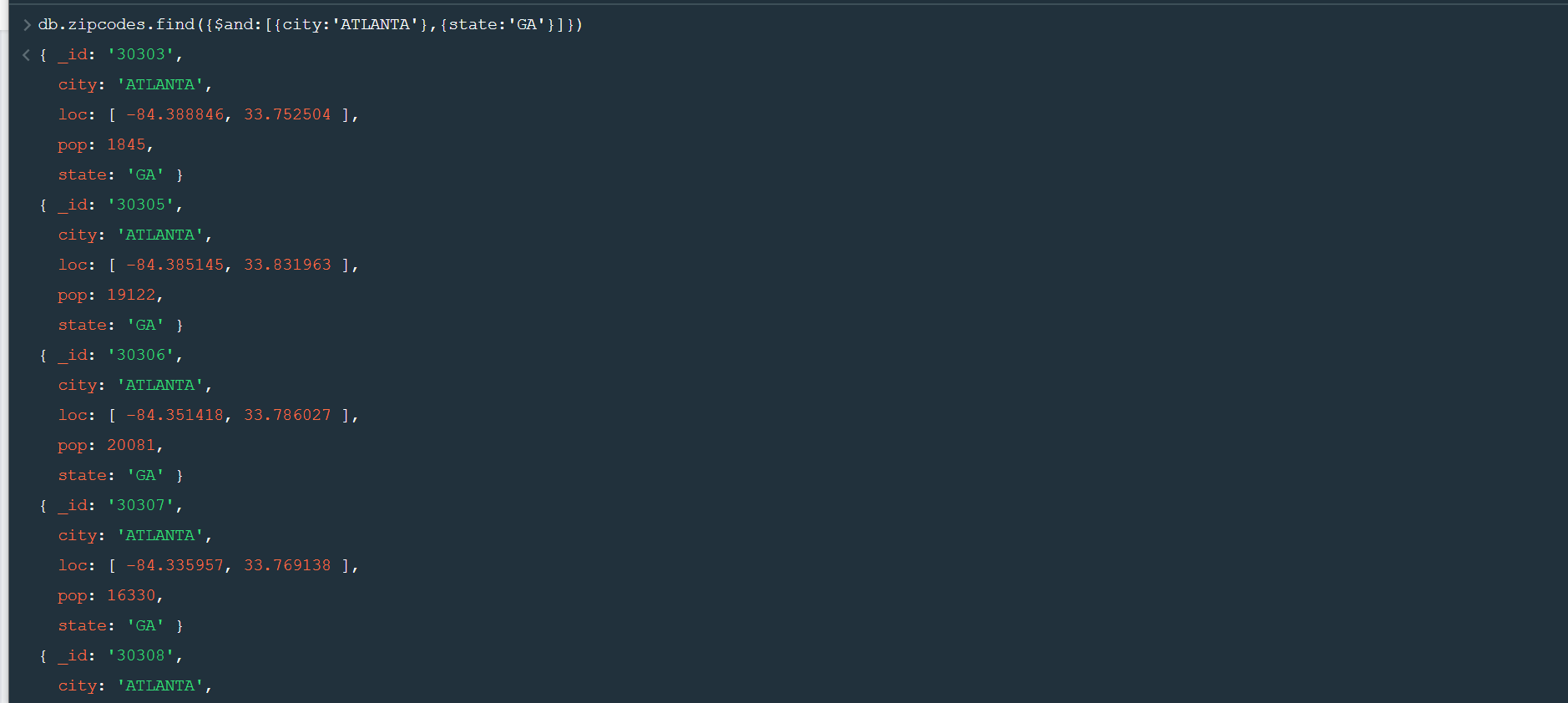
# MongoDB -Aggregation Exercises

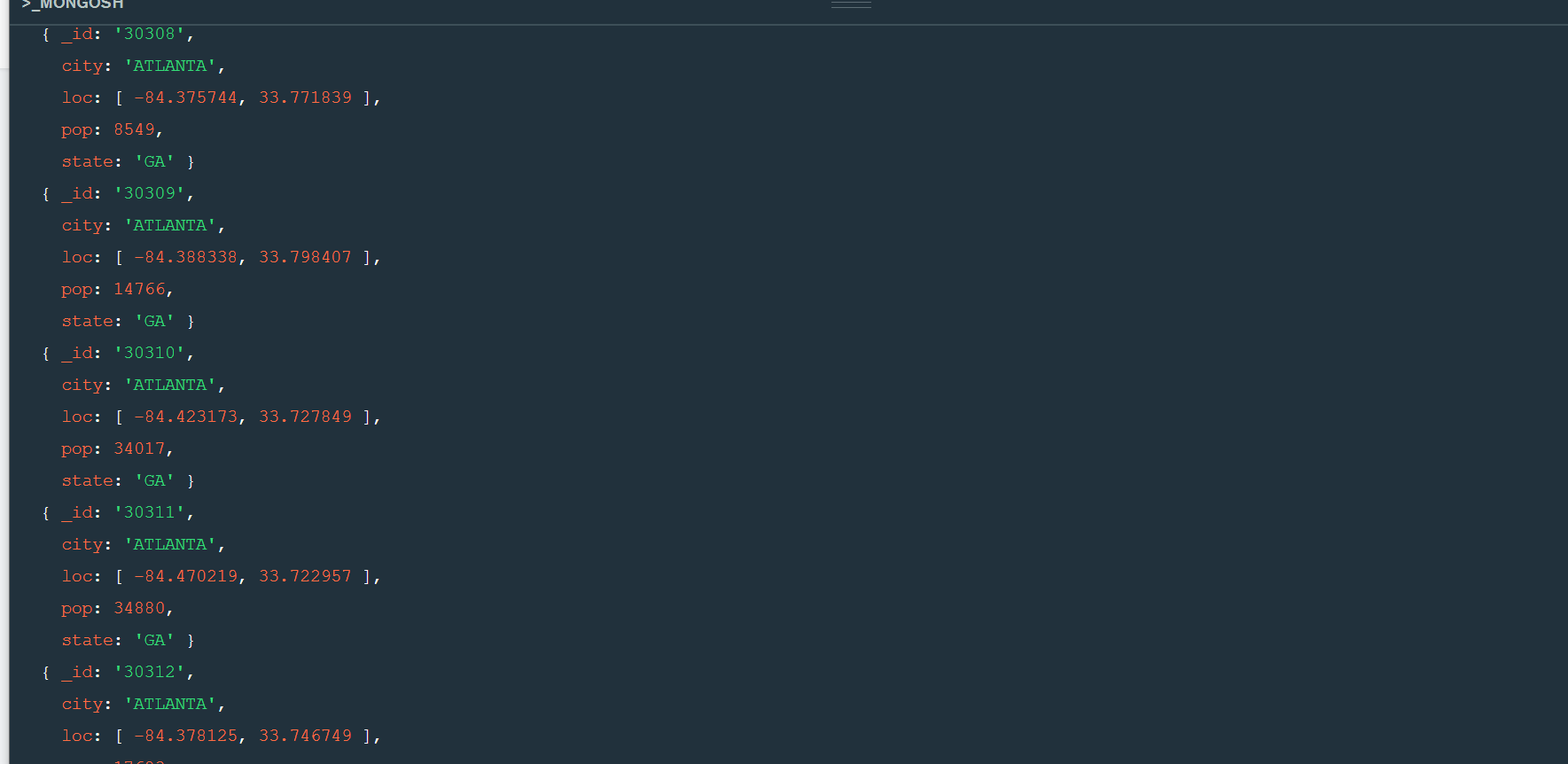
Import the zips.json file into your MongoDB. Database name is "population" and collection name is "zipcodes".

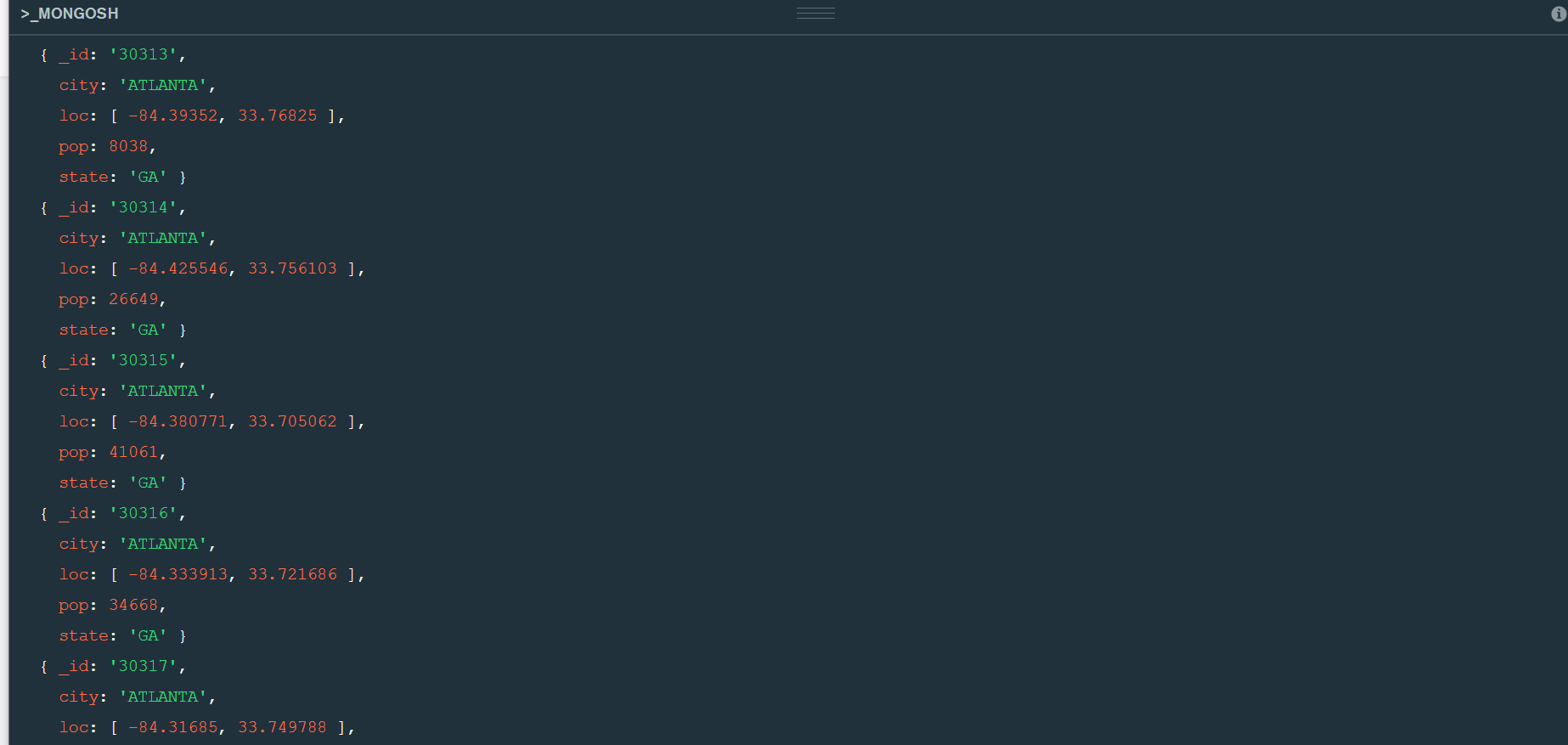
mongoimport --db population --collection zipcodes --file zips.json

# Atlanta Population

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

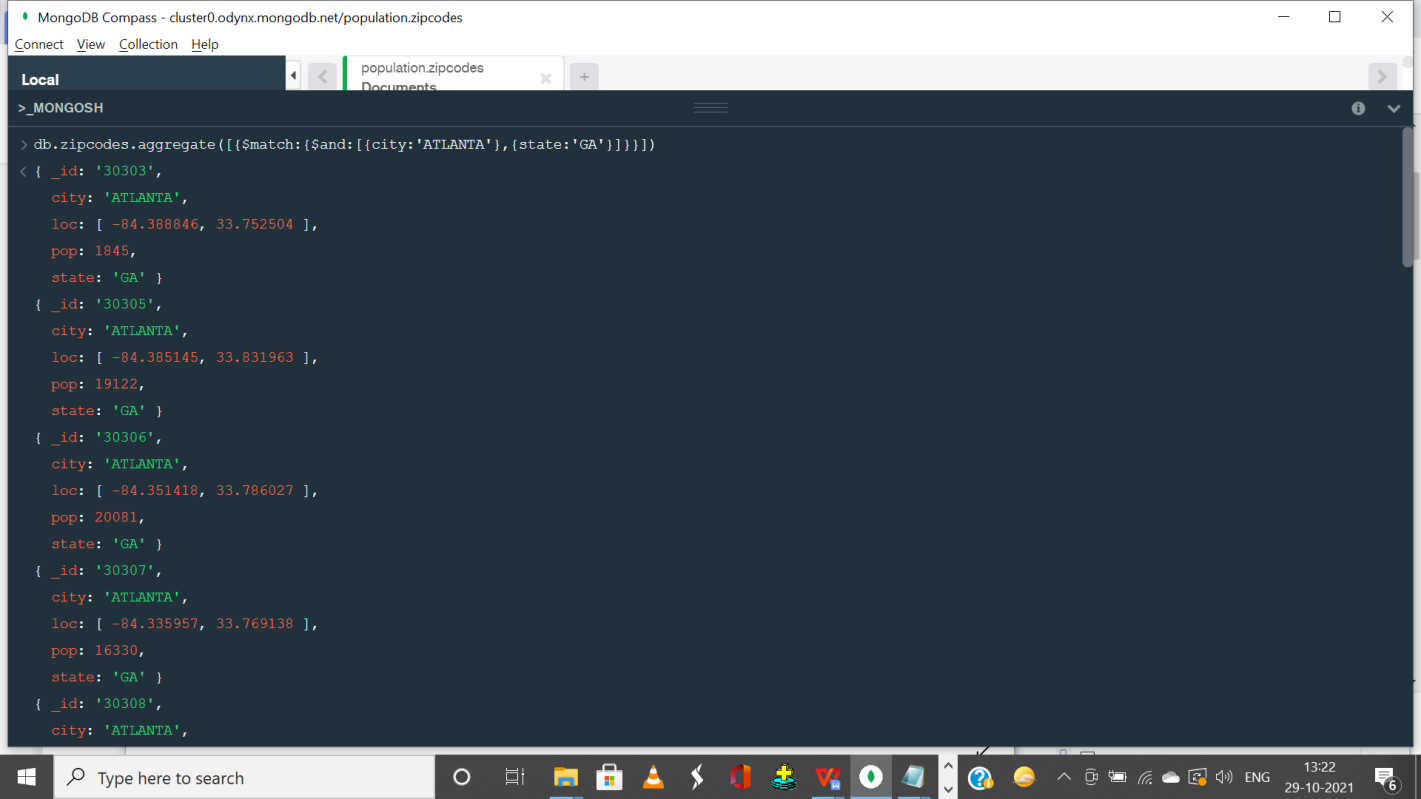


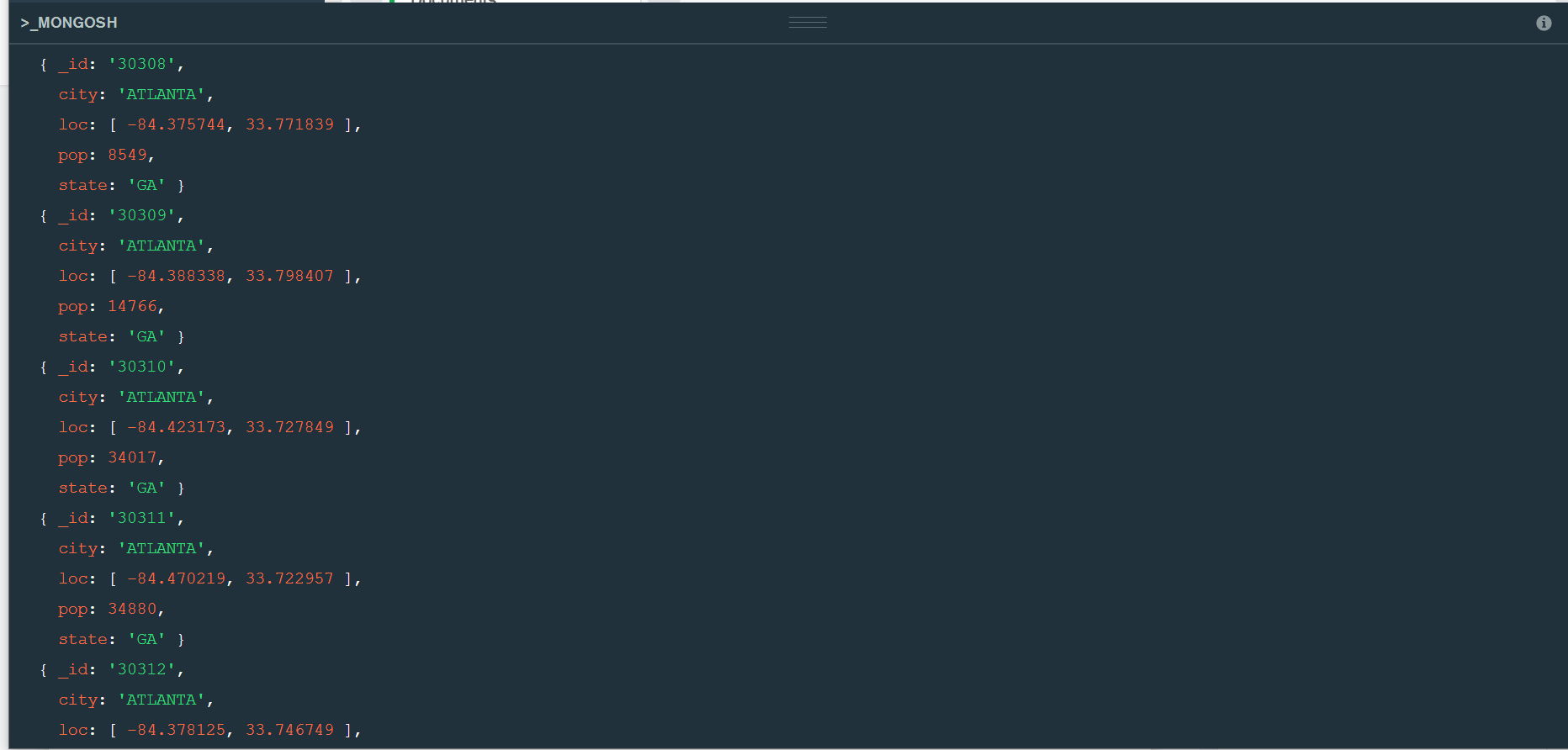


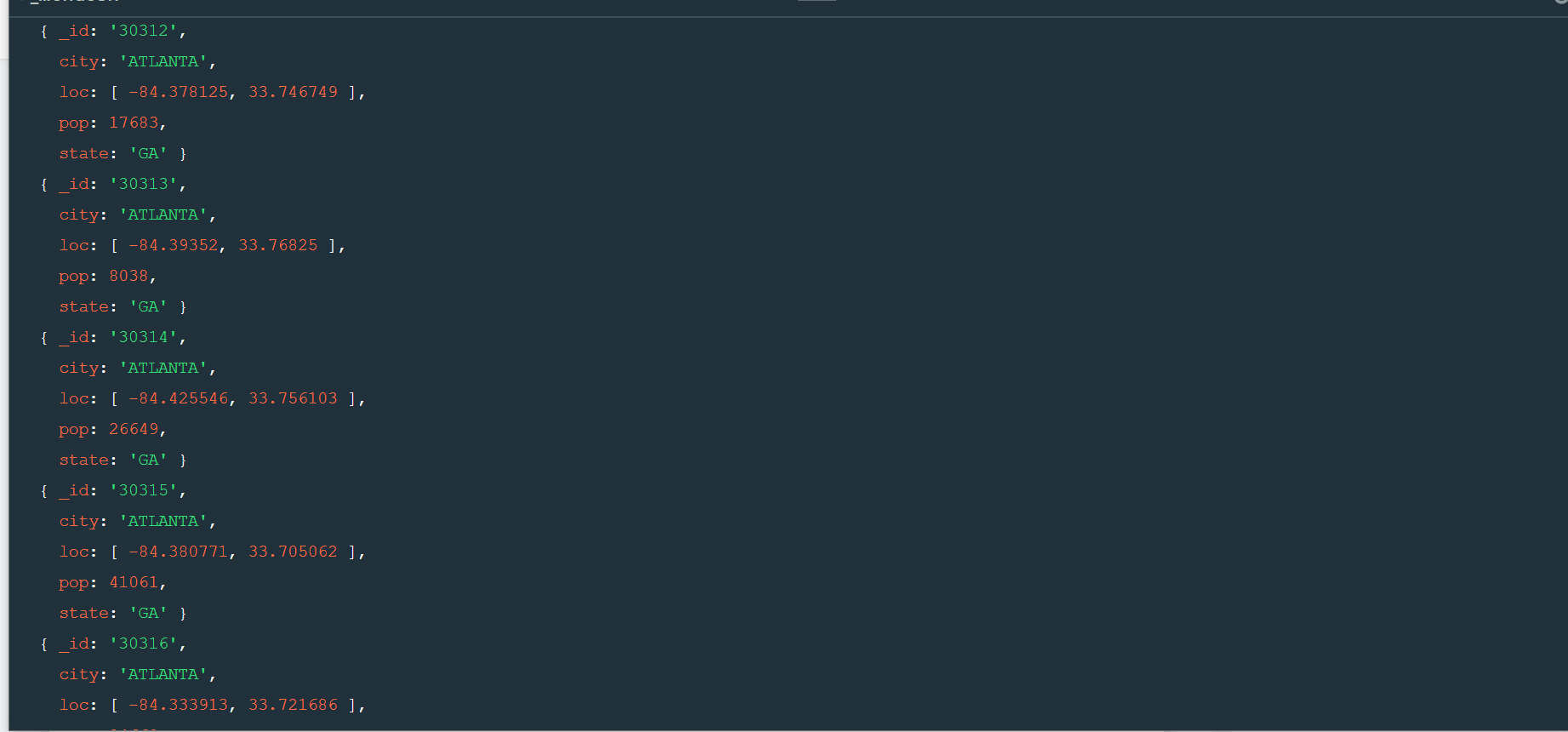


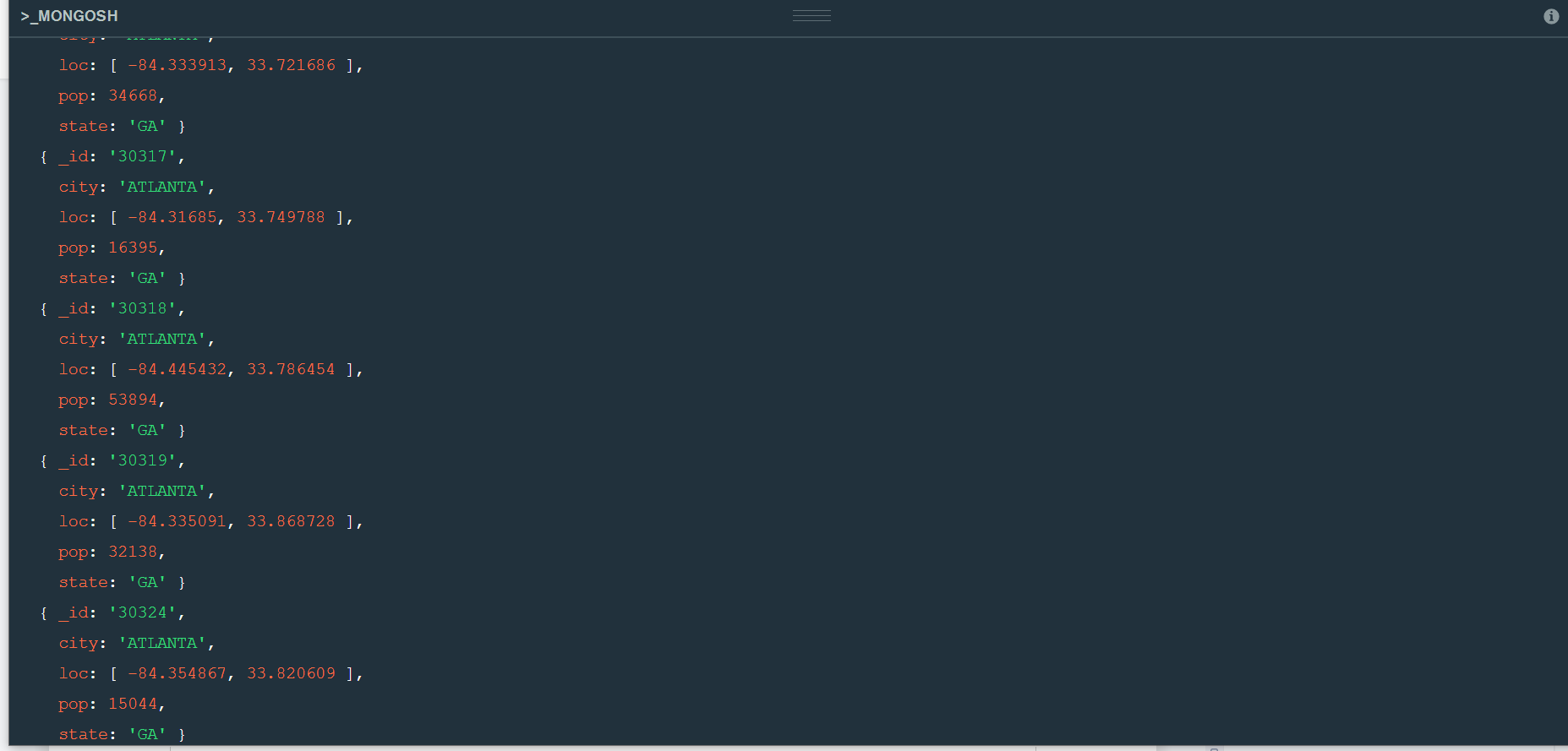


1. use db.zipcodes.aggregate with $match to do the same as above.



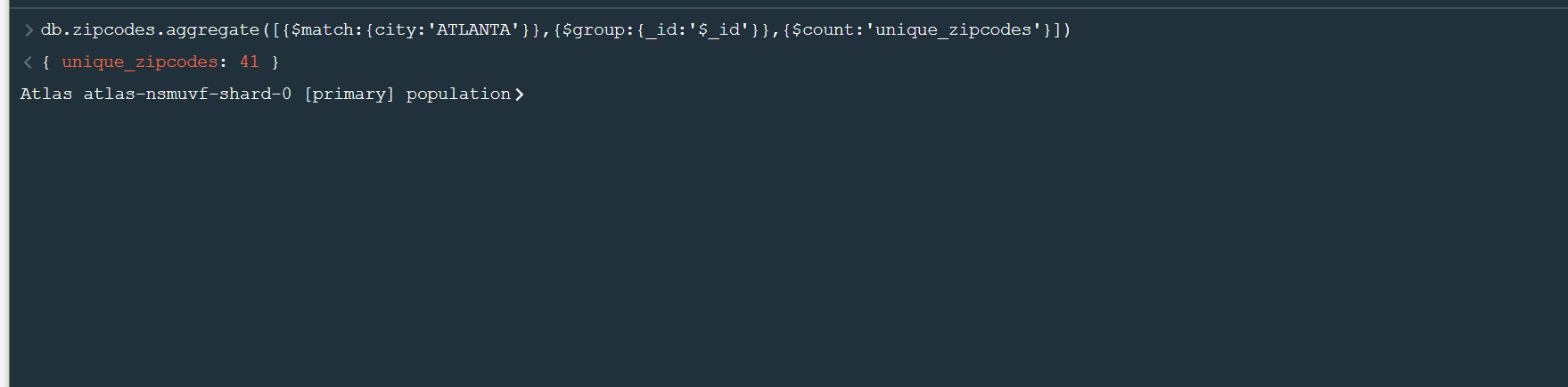




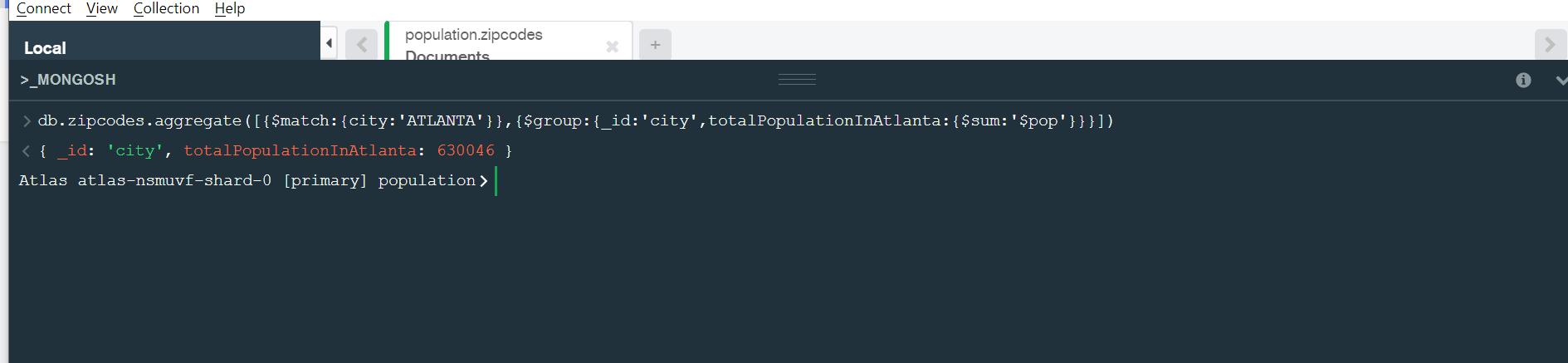




1. use $group to count the number of zip codes in Atlanta.

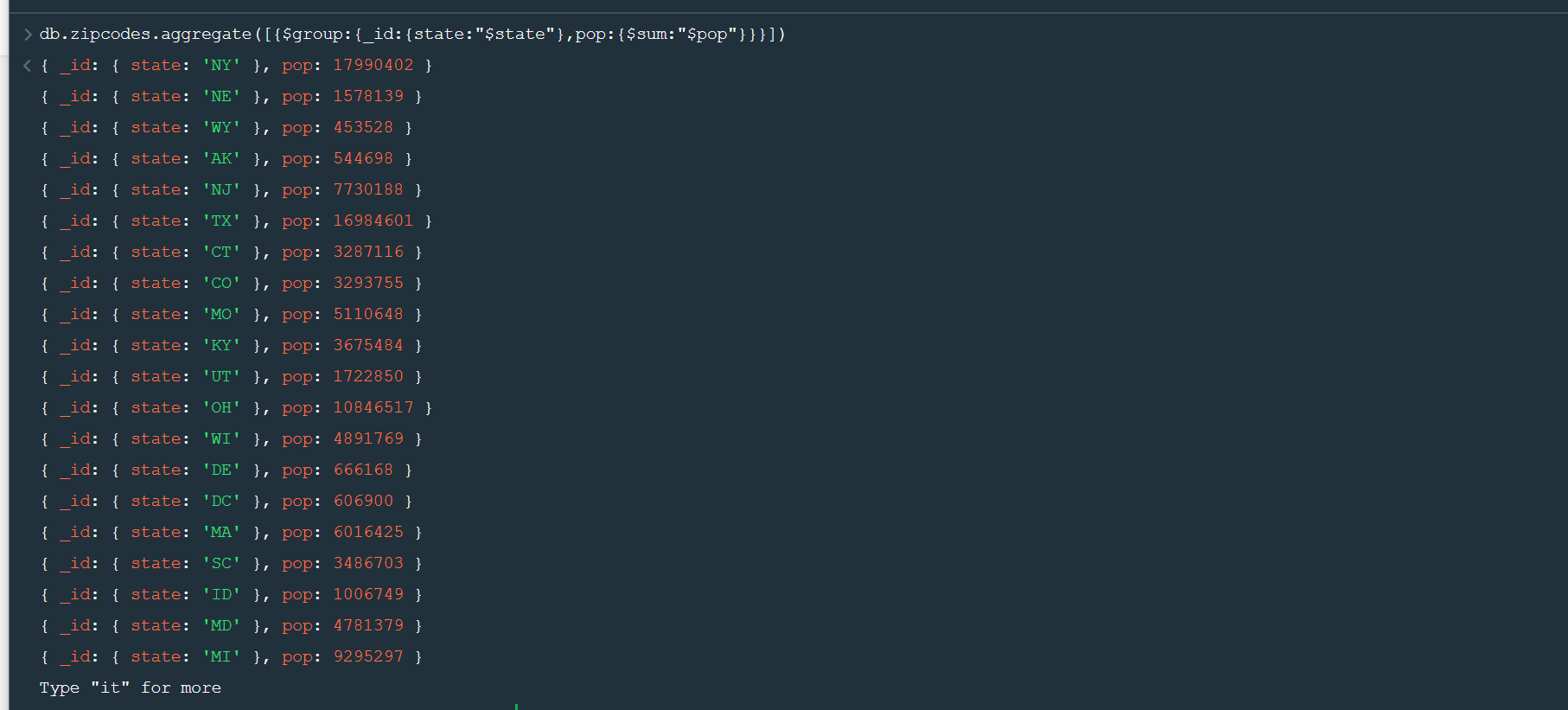


1. use $group to find the total population in Atlanta.

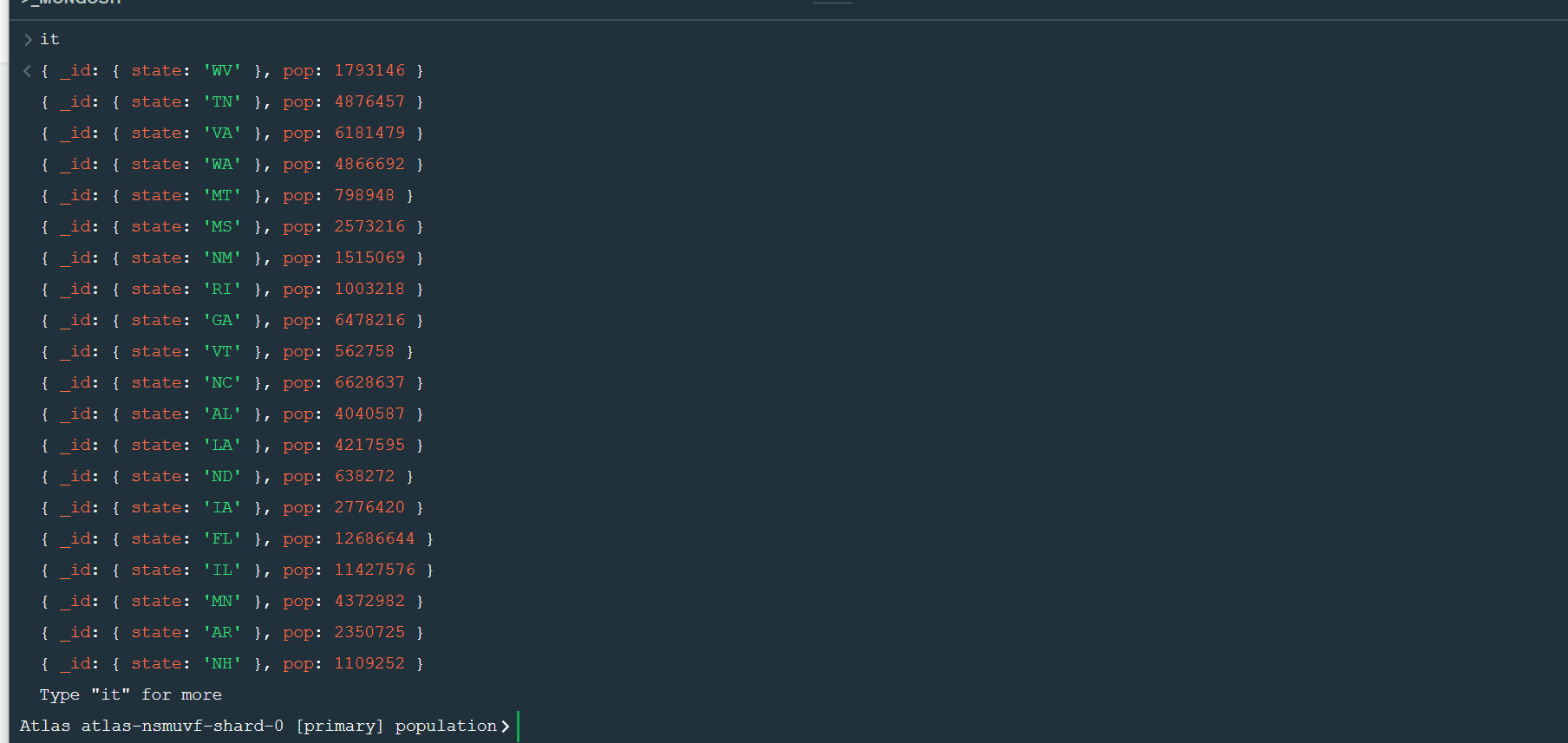


# Populations By State

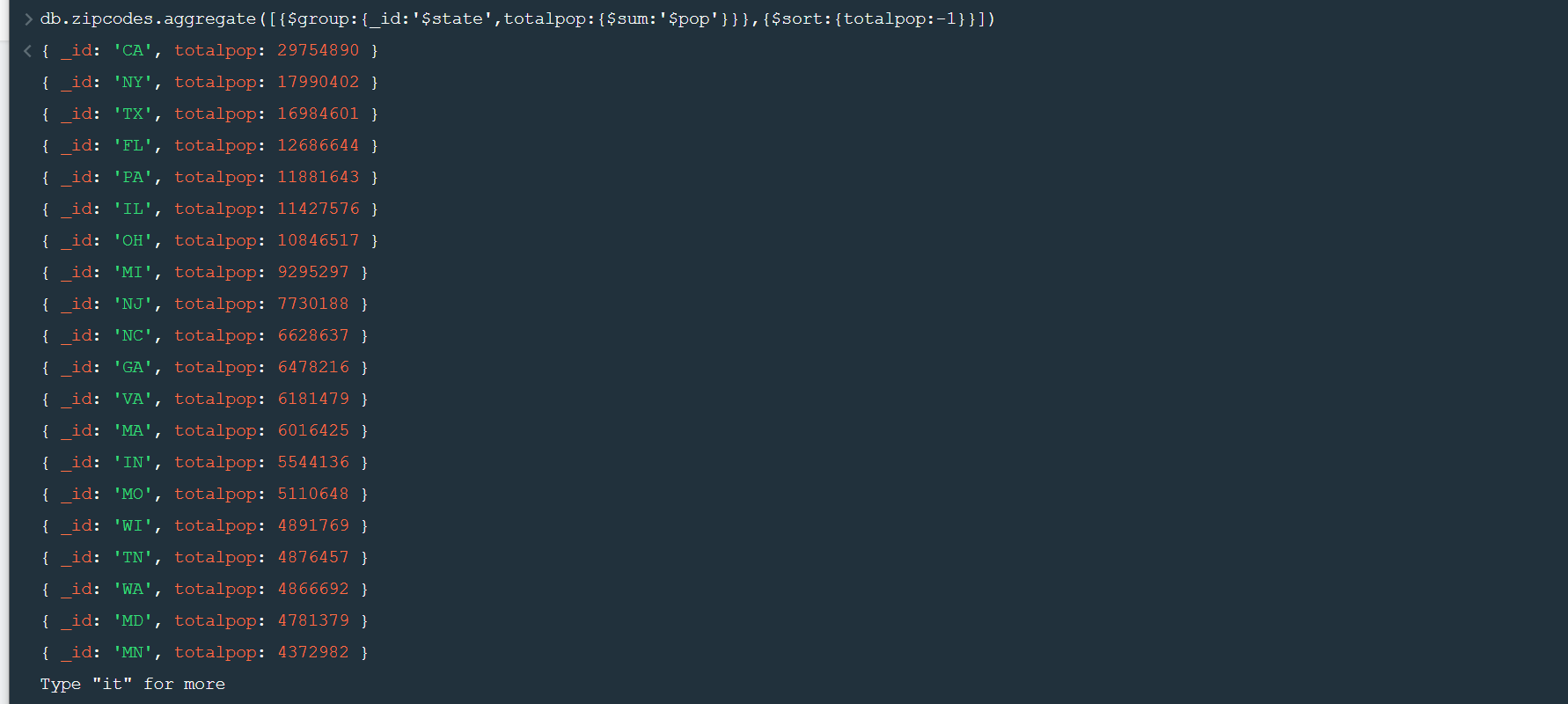
1. use aggregate to calculate the total population for each state







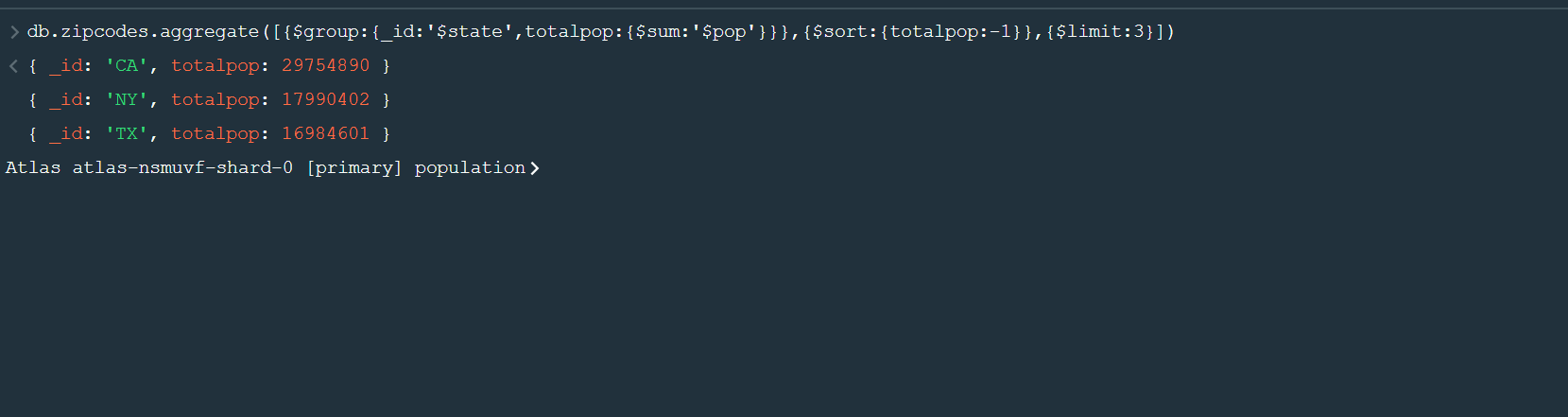
1. sort the results by population, highest first





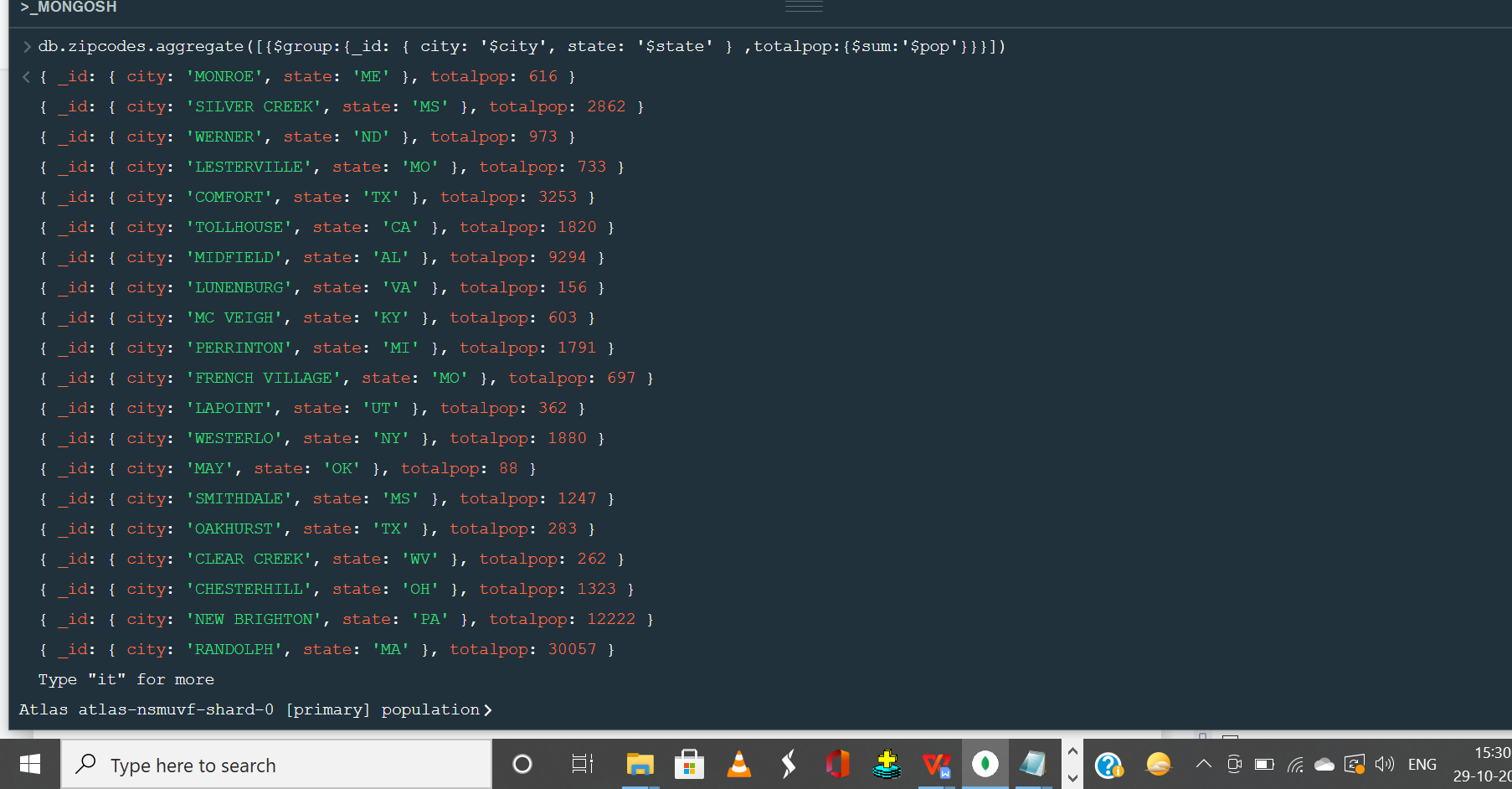


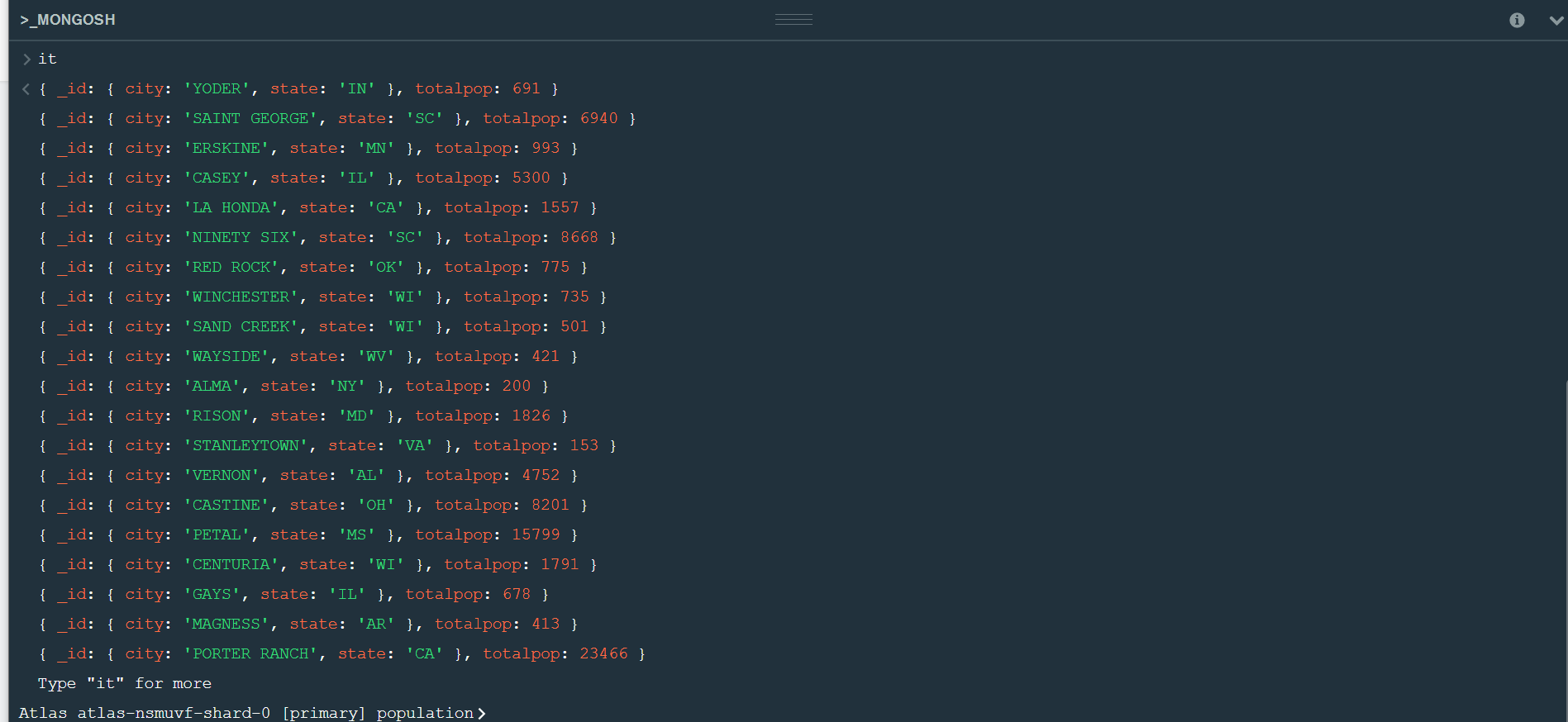
1. limit the results to just the first 3 results. What are the top 3 states in population?



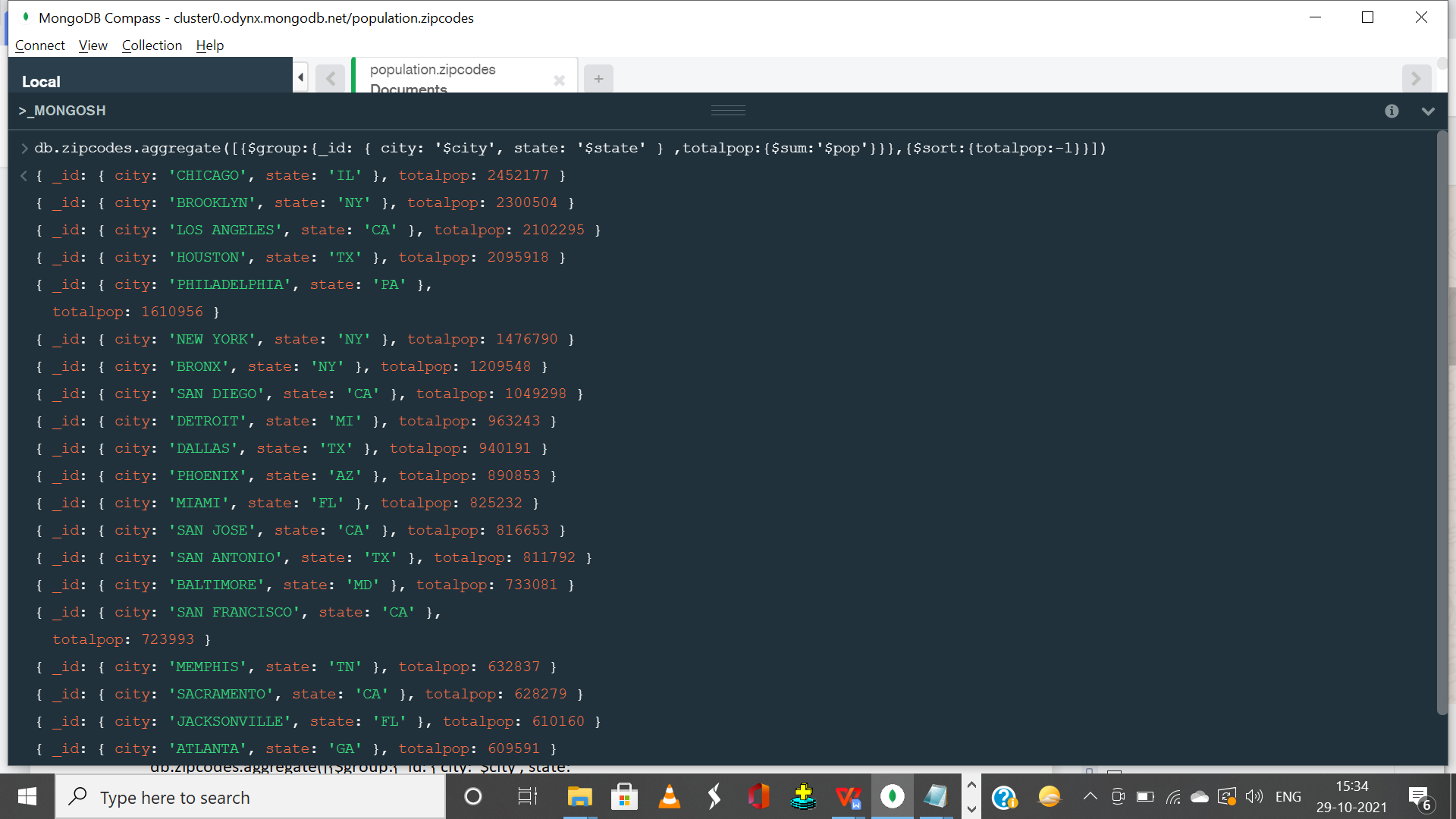
# Populations by City

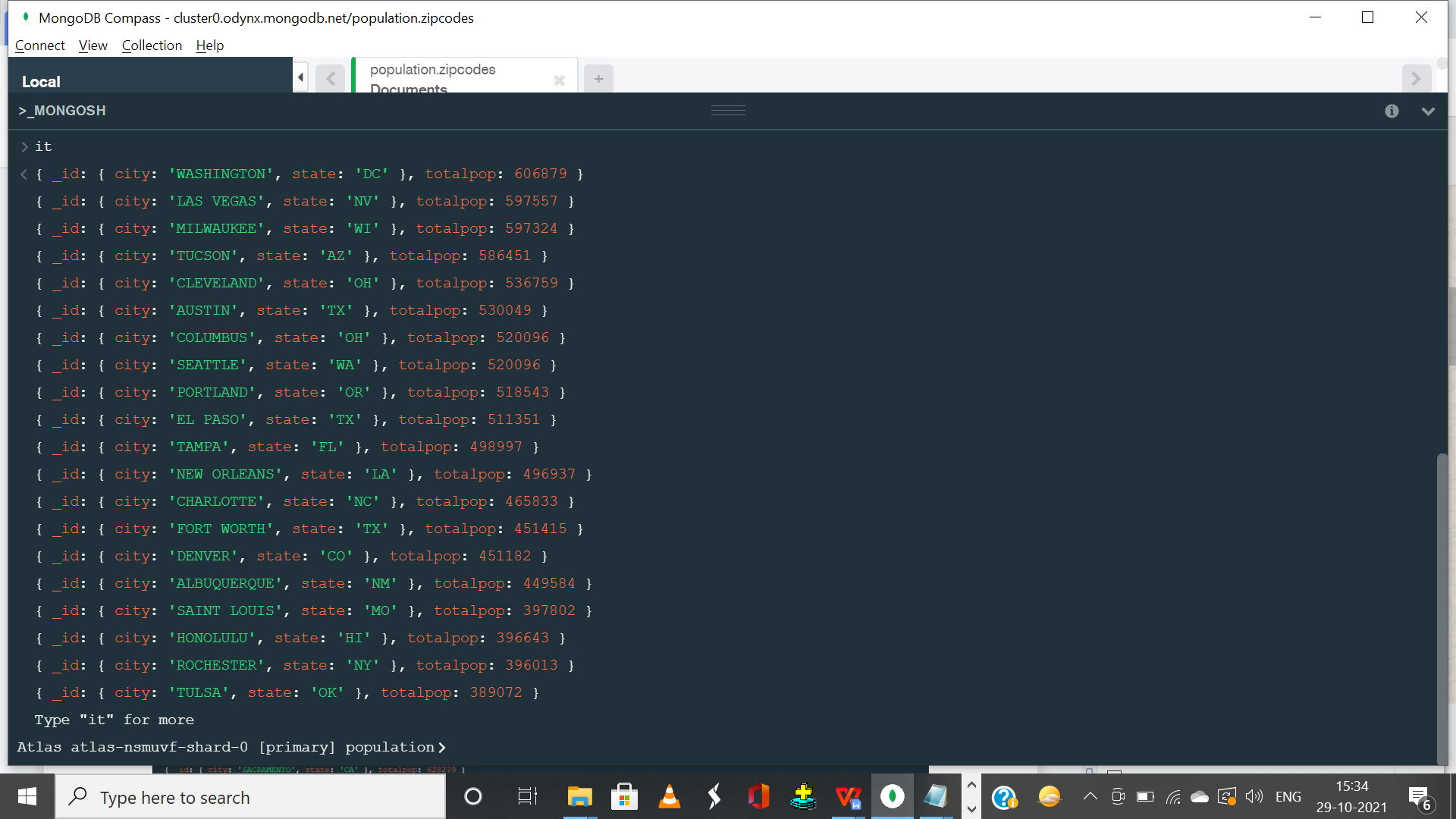
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city', state: '$state' }



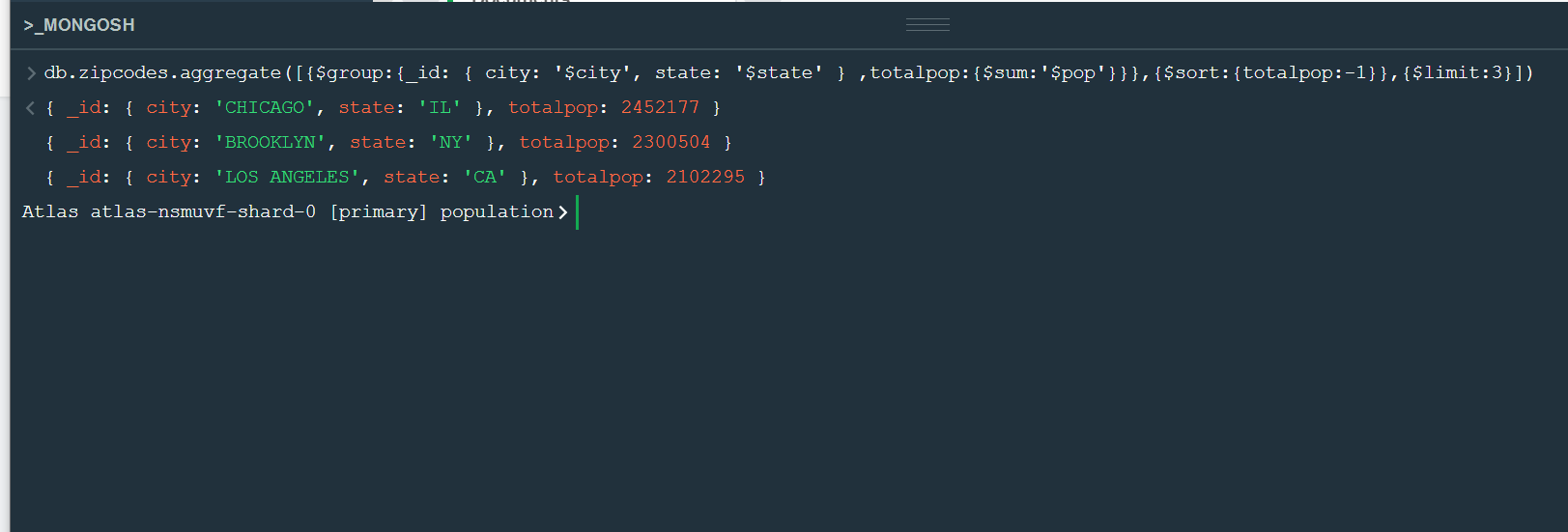


1. sort the results by population, highest first

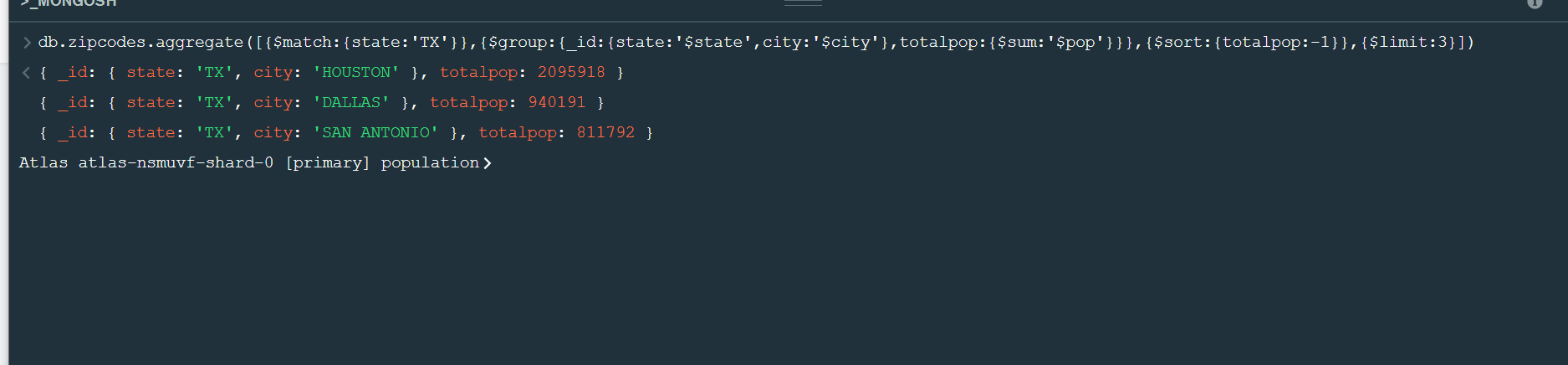




1. limit the results to just the first 3 results. What are the top 3 cities in population?

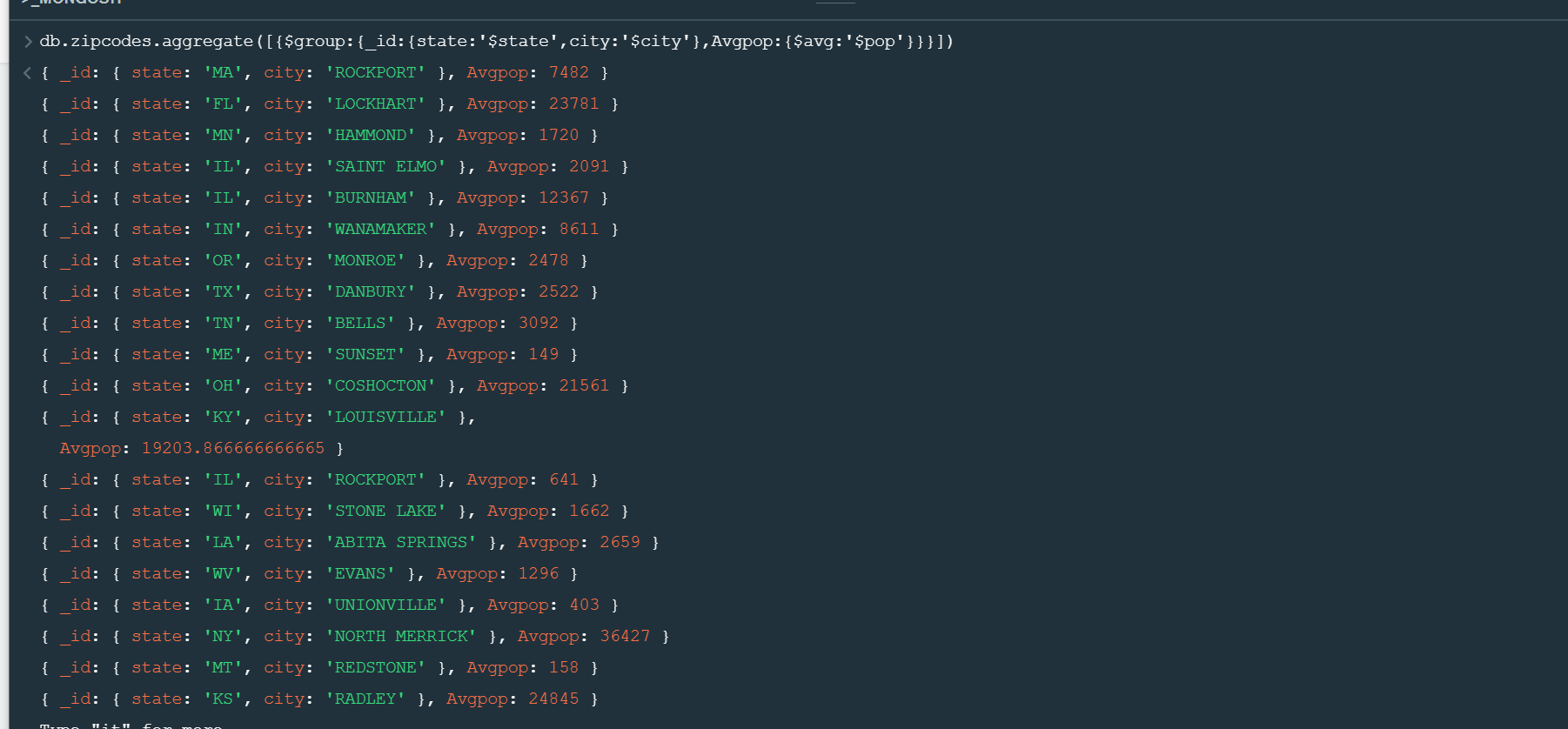


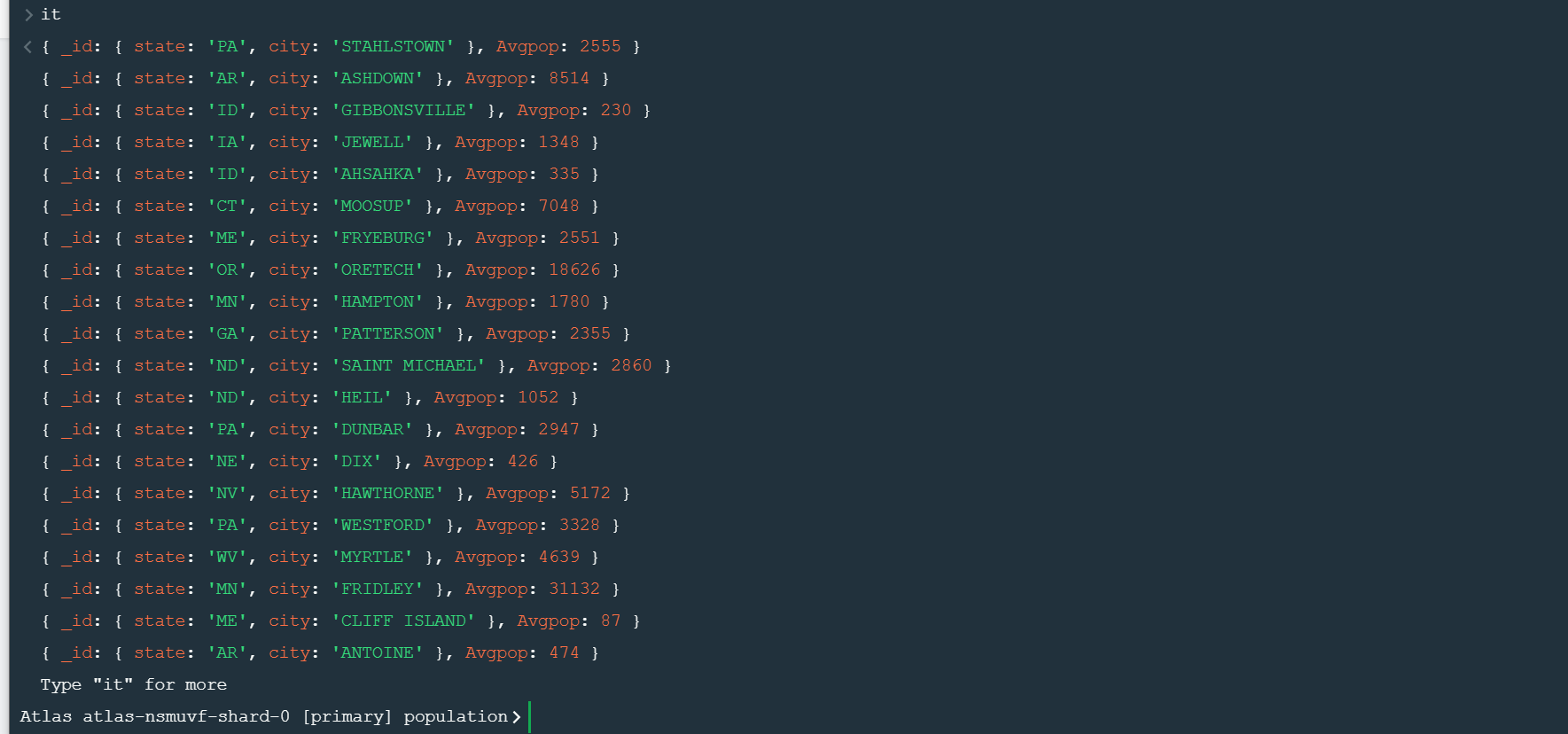
1. What are the top 3 cities in population in Texas?

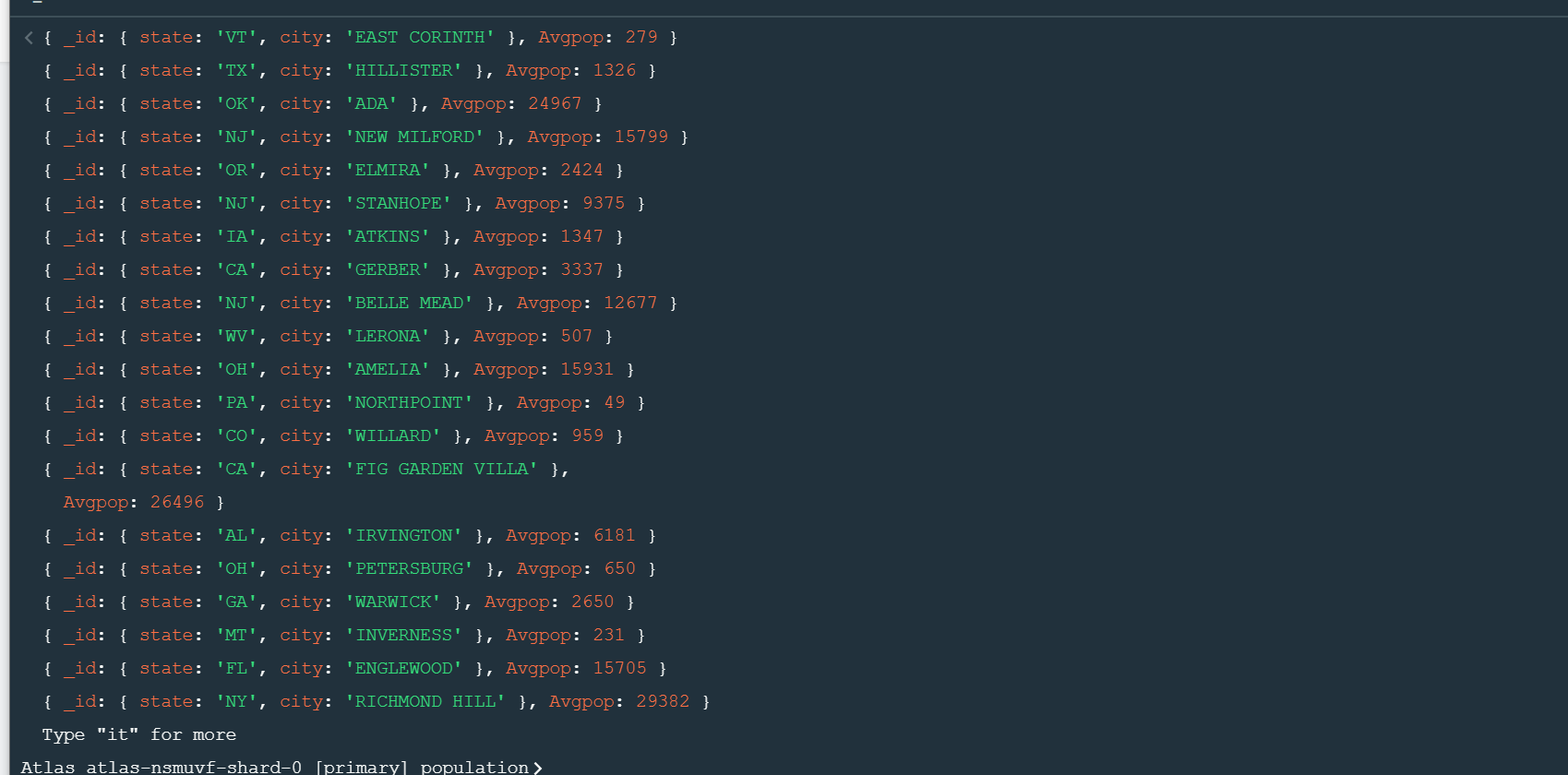


# Bonus

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







1. What are the top 3 states in terms of average city population?

