Homework # 9

Ruchi Panwar (rpanwar@kent.edu)

Advance Database

Fall 2015

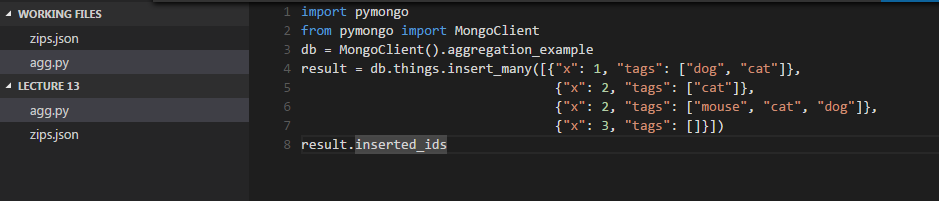
Professor: Dr. Gregory S DeLozier

Dec 03, 2015

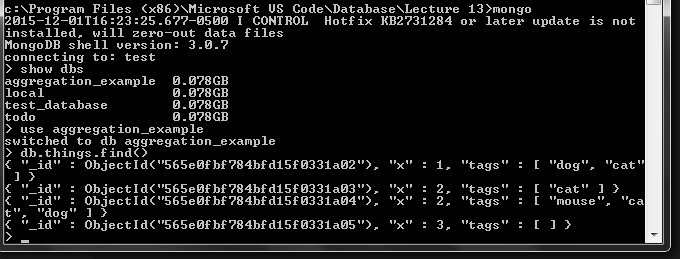
**Aggregation**

**Aggregation program in python :**

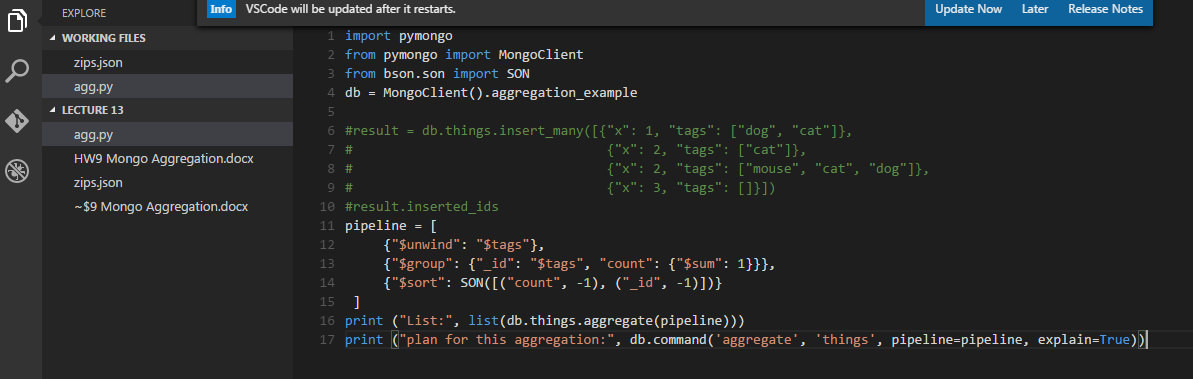
Insert the data to aggrgation\_example database.



Data is been inserted to database aggrgation\_example



Add the aggregation code and execute the program



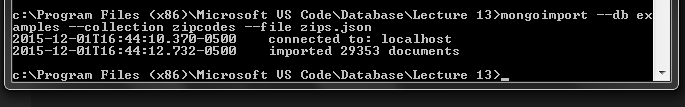
Output after aggregation and the plan for the aggregation:



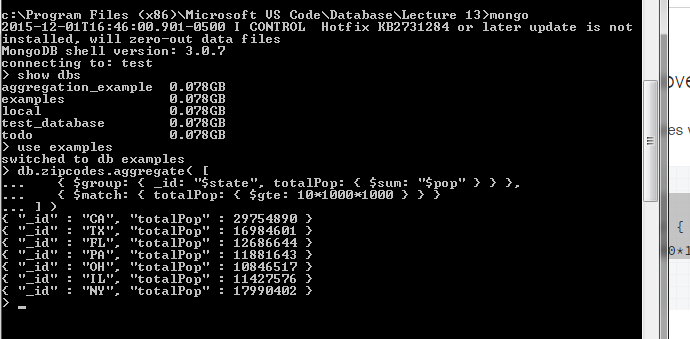


**Aggregation program using Zips.json file :**

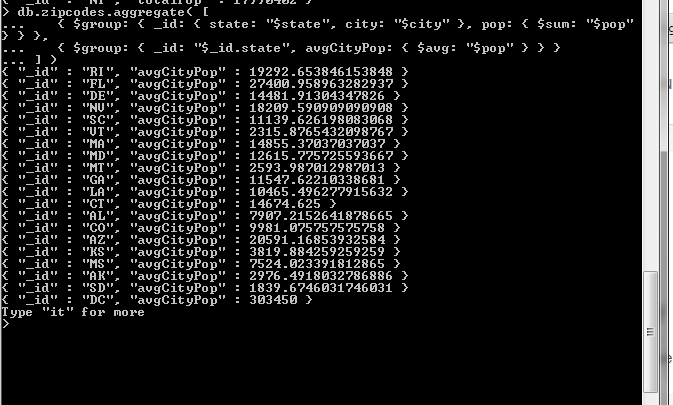
Import the .json file using mongoimport



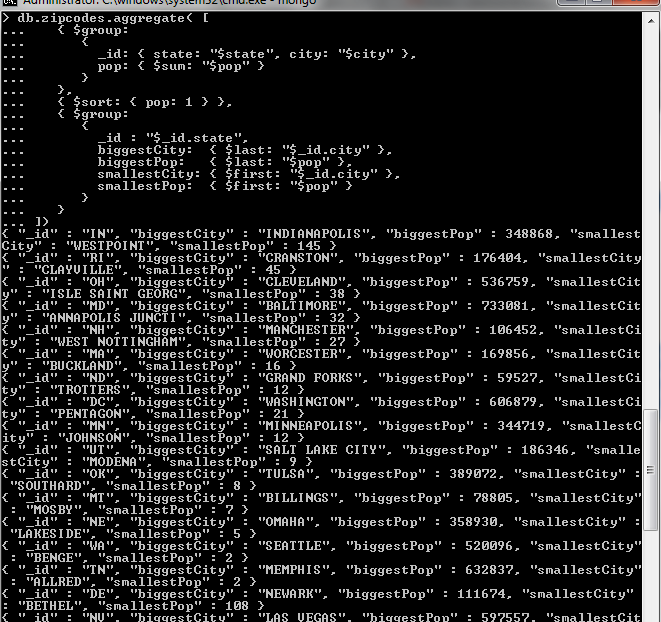
Once imported, execute the aggregation code : it will give the results for all the states that has population more than 10000000.



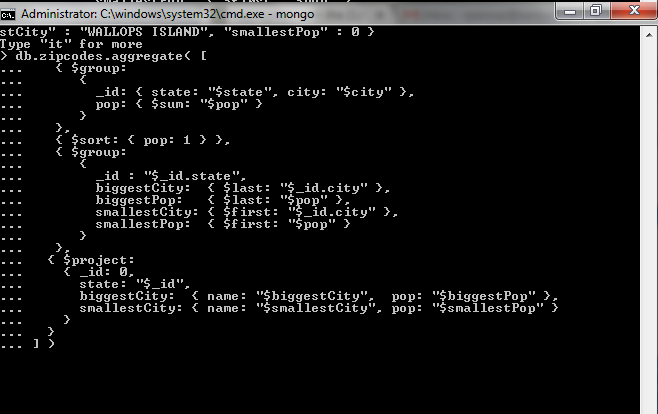
execute the multi stage aggregation code : it will provide the list of all the states with average population.



execute the multi complex aggregation code : it will provide the list of all the states with its biggest city, smallest city and their respective population.

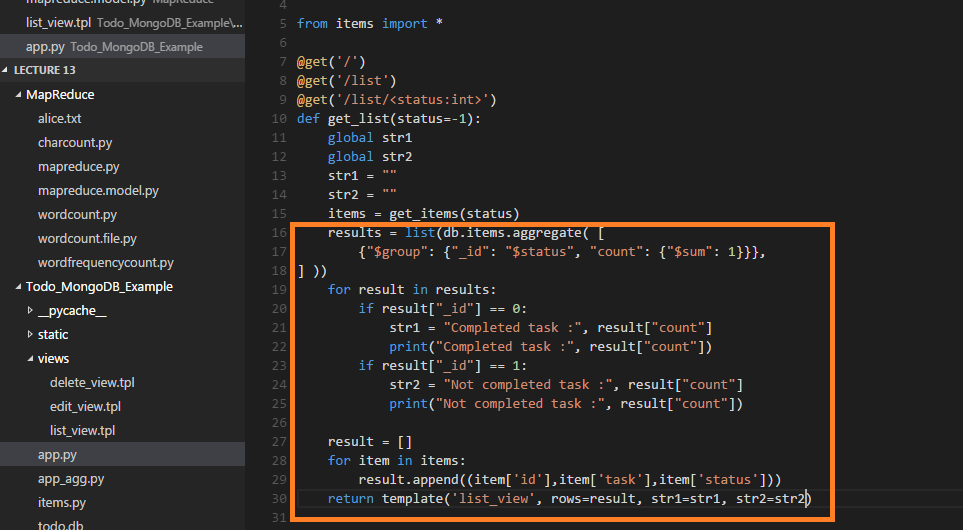


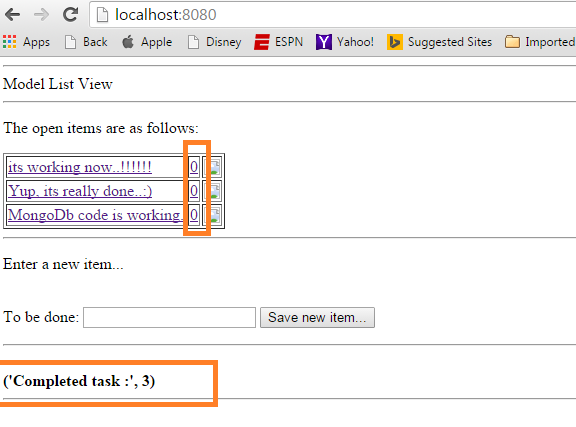
Add Projection stage and execute the code:

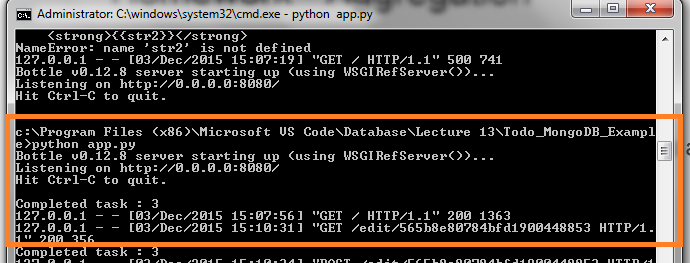


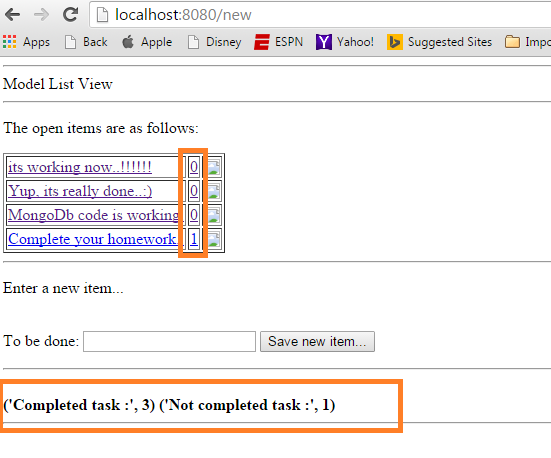


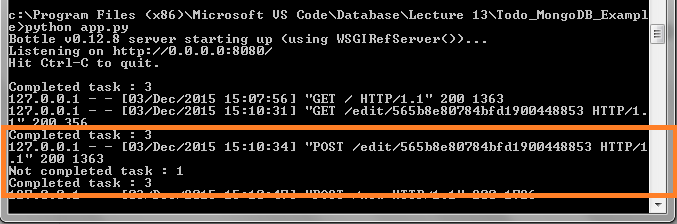
**Aggregation to Todo app**:





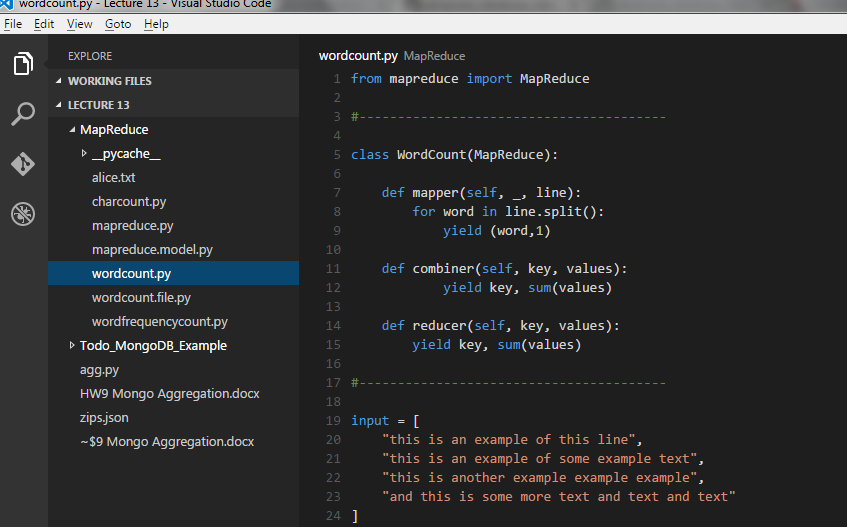




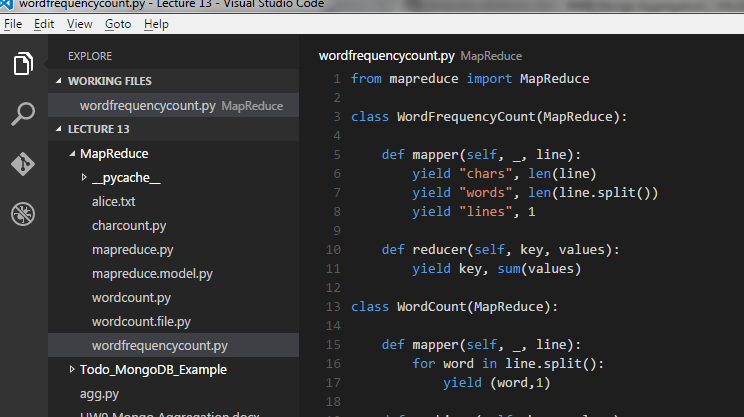


**MapReduce Example:**

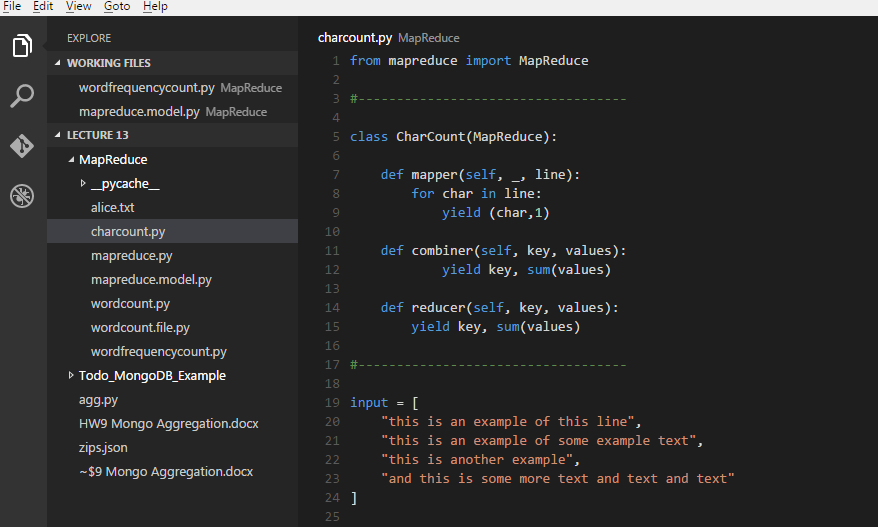
**1.** program to count Words and its output



Output:

**2.** program to count frequency of the Words 

Output:

**3.** program to count the characters 

Output: