ITP 249: Database Systems for Analytics

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| Homework 4 – 20 points | Due: 11/16/2019 @ 11:59PM |

# Goal

You’ll use Studio3T to write MongoDB queries to solve the problems below.

# Procedure

* The first few lines of your Word document should be:

-- Your Name

-- ITP 249

-- HW 04

* Run the query against the “restaurants” collection in your MongoDB database.
* Insert the MongoDB query in the Word document.
* Screenshot the query results into the Word document.
* Save the document as *lastname\_firstname\_HW04*. Submit the file on Blackboard.

# Problems

1. Write a MongoDB query to count the number of restaurants.
2. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for all the documents in the restaurant collection.
3. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine, but exclude the field \_id for all the documents in the collection restaurant.
4. Write a MongoDB query to find all restaurant in “Queens” and display the fields restaurant\_id, name, borough and zip code, but exclude the field \_id for all the documents returned from the query.
5. Write a MongoDB query to find the restaurants who are in the “Bronx” and received an “A” grade and display the fields restaurant\_id, name, borough and zip code, but exclude the field \_id for all the documents returned from the query.
6. Write a MongoDB query to find the restaurants in “Manhattan” that are not Delicatessen and their grade score more than 85. Display the restaurant\_id, name, borough and zip code, and exclude \_id.
7. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.
8. Write a MongoDB query to count the results for question #7.
9. Write a MongoDB query to find all the Italian restaurant in Manhattan, and sort the results by score and name in alphabetical order. Display the restaurant’s name, cuisine and the grade and score
10. Write a MongoDB query to find the top 5 restaurants in “Manhattan” that are not Delicatessen and their grade score more than 85. Display the restaurant\_id, name, borough and zip code, and exclude \_id.