DSCI 551 - Spring 2022

Lab3, 20 points

Note this lab is worth twice as much as lab1 and lab2.

Due: April, 8, Friday (end of day, 11:59pm)

Consider the New York best seller data set: nyt2.json. Import this data set into MongoDB using mongoimport as follows:

mongoimport --file nyt2.json --collection nyt2 --db dsci

Once imported, execute "mongo" and then "use dsci", "show tables", you should see the collection nyt2 listed.

Write a MongoDB script (using find, aggregate, update, etc.) for each of the following questions on the data set. Show the result of evaluating the script.

- 1. Find out how many books have "odd" in their titles (case insensitive) and a rank of at least 10 db. nyt2. Count (for title : /odd/i frank : {softe: 103}
- 2. Add a new attribute/field "read" for all books by "John Grisham" and "Zadie Smith" and set their values to true. Show the response from MongoDB after executing your script.
- 3. Find out how many books which do not have the "read" field.
- 4. Find out the titles of books whose price is between 10 and 20 (inclusive). Output only the titles Output the same title only once
- For each <u>publisher</u>, find out the <u>maximum price</u> of best sellers <u>published</u> by the <u>publisher</u>.
 Order the <u>publishers</u> by the <u>descending order</u> of the <u>maximum price</u>. Output the <u>first 10 in</u> the <u>list</u>

Submission: submit a word/pdf document listing the scripts and results.

```
2. db. nyt2. update ({"ounthor": {fin: I"John ~", "Zadie ~"] !!

{$\fet: \{ \text{"read": "truen} \}, \{ multi: \text{the} \})

3. db. nyt2. count() — db. nyt2. count(\{ \text{"read": \} \{ \text{exists: the } \} \})

db. nyt2. count(\{ \text{"read": \} \{ \text{exists: \} \} \})

4. db. nyt2. distinct ("title", \{ \text{"price": \} \{ \text{\} \} \})

5. db. nyt2. aggregiate (\{ \text{\} \} \)

5. db. nyt2. aggregiate (\{ \text{\} \} \)
```

max.price: (4 max: 14 price 133)