SECTION 1:

```
mongo-client> use new mongo_db
switched to db new mongo_db
new mongo_db> db.dropDatabase()
{ ok: 1, dropDatabase() }
new mongo_db> use new mongo_db
laiready on db new mongo_db
new mongo_db> db.createCollection("mycol", { capped : true, autoIndexId : true, size : 6142800, max : 1
|... 6080 }]
Uncaught:
SyntakTrory: Unexpanted_tokee
               or: Unexpected token, expected "," (2:0)
   1 | db.createCollection("mycol", { capped : true, autoIndexId : true, size : 6142800, max : 1 2 | 0000 })
 new_mongo_db> db.createCollection("test_collection")
{ ok: 1 }
new_mongo_db> db.createCollection("mycol", { capped : true, autoIndexId : true, size : 6142800, max : 1
... 8000 })
Uncaught:
SyntakError: Unexpected token, expected * * (7:0)
   1 | db.createCollection("mycol", { capped : true, autoIndexId : true, size : 6142800, max : 1
  new_mongo_db> db.test_collection.drop()
 ... ;)
eprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
   acknowledged: true,
insertedIds: { '0': ObjectId("637acde3c095be418b7910a7") }
   ew_mongo_db> db.test_collection.find().pretty()
     __id: ObjectId("637acde3c095be418b7910a7"),
title: 'Mongo Db practice',
description: 'this is my first MongoDB document'
 1
new_mongo_db> db.test_collection.update({'title':'MongoDB practice'},
...
fseat{ 'title':'Updated MongoDB practice'}})
DeprecationWarning: Collection.update() is deprecated. Use update()ne, updateMany, or bulkWrite.
   acknowledged: true,
insertedId: null,
matchedCount: 0,
modifiedCount: 0,
upsertedCount: 0
```

```
(base) Jonathans-MacBook-Pro:Database_Systems iiicemane$ cd^HW5
(base) Jonathans-MacBook-Pro:HW5 iiicemane$ docker cp primer-data.json 4478e65e1211:primer-data.json
(base) Jonathans-MacBook-Pro:HW5 iiicemane$ docker exec -it 4478e65e1211 /bin/bash
rott@4478e65e1211:/f mongoimport
2022-11-21780:43:40.297+8080 no collection specified
2022-11-21780:43:40.298+8080 error validating settings: invalid collection name: collection name cannot be an empty string
rott@4/8e65e1211:/f mongoimport -c test_collection -d mongo_db -drop < primer-data.json
2022-11-21780:44:22.243+8080 dropping: mongo_db.test_collection
2022-11-2180:44:22.243+8080 dropping: mongo_db.test_collection
Volument/Octoberrary early

(base) Jonathans-MacBook-Pro:HW5 ilicemane$ docker run -it --network mongo-network --rm mongo mongosh --host mongo-server mongo-client

Current Mongosh log ID: 637aca59cbfbf6824855899ad

Connecting to: mongodb://mongo-server:27017/mongo-client?directConnection=true&appName=mongosh+1.6.0

Using Mongosh: 1.6.0
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.
         The server generated these startup warnings when booting
7822-11-20723:46:57.851+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
7822-11-20723:46:58.384+00:00: wm.max_map_count is too low
7822-11-20723:46:58.384+00:00: wm.max_map_count is too low
        Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).
        The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.
```

SECTION 2:

(1) How many restaurants are there in this collection?

(2) List in alphabetical order each different (distinct) cuisine represented in this collection.

```
new_mongo_db> db.restaurants.distinct("cuisine")

[ 'Afghan', 'Arrican', 'Arrican', 'Arrican', 'Arrican', 'Arrican', 'Arrican', 'Arrican', 'Arrican', 'Arrican', 'Australian', 'Asian', 'Australian', 'Baspladshi', 'Baspladdshi', 'Baspladdshi', 'Bastbecue', 'Carfa/Coffee/Tea', 'Carfa/Coffee/Tea', 'Cafa/Coffee/Tea', 'Cajun', 'Californian', 'Calibean', 'Chinese', 'Californian', 'Chinese', 'Chinese/Cuban', 'Chinese/Cuban', 'Chinese/Cuban', 'Chinese/Cuban', 'Chinese/Cuban', 'Creole', 'Creole/Cajun', 'Czech', 'Denuts', 'Eastern European', 'Egyptian', 'Eastern European', 'Egyptian', 'French', 'Fruits/Vegetables', 'German', 'Greek', 'Hamburgers', 'Hawaiian', 'Hotdogs', 'Hotdogs/Pretzels', 'Ice Cream, Gelato, Yogurt, Ices', 'Indian', 'Indonesian', 'Irainian', 'Ir
```

```
'Middle Eastern',
   'Moroccan',
'Not Listed/Not Applicable',
   'Nuts/Confectionary',
  'Pakistani',
'Pancakes/Waffles',
  'Pizza',
'Pizza/Italian',
  'Polish',
'Polynesian',
  'Portuguese',
  'Russian',
  'Sandwiches',
'Sandwiches/Salads/Mixed Buffet',
   'Seafood',
  'Soul Food',
  'Soups',
'Soups & Sandwiches',
  'Spanish',
  'Tapas',
  'Tex-Mex',
  'Turkish',
  'Vegetarian',
'Vietnamese/Cambodian/Malaysia'
new_mongo_db> [
```

(3) Return the name of all restaurants within the zipcode 10023 which serve Italian cuisine. Return only the names of the restaurants.

(4) Which Borough has the most Greek restaurants? How many are there? Queens has the most with 58. In total there are 111

```
Type "it" for more

[new_mongo_db> db.restaurants.find({"cuisine": "Greek"},{"borough": 1}).count()

111

[new_mongo_db> db.restaurants.find({"cuisine": "Greek","borough": "Queens" },{"borough": 1}).coun

58

[new_mongo_db> db.restaurants.find({"cuisine": "Greek","borough": "Queens" }).count()

58

[new_mongo_db> db.restaurants.find({"cuisine": "Greek","borough": "Bronx" }).count()

4

[new_mongo_db> db.restaurants.find({"cuisine": "Greek","borough": "Brooklyn" }).count()

14

[new_mongo_db> db.restaurants.find({"cuisine": "Greek","borough": "Manhattan" }).count()

35

[new_mongo_db> db.restaurants.find({"cuisine": "Greek","borough": "Staten Island" }).count()

0

new_mongo_db>
```

(5) Return a list of restaurants (names) which have the string "Pho" in their name. ("Pho" is a wonderful and delicious Vietnamese noodle soup.)

(6) Return a list of boroughs ranked by the number of Italian restaurants in the borough. That is, for each borough, find how many restaurants serve Italian cuisine and print the borough and the number of such restaurants sorted descending by this number. (HINT: use the aggregate Page 6 method, and use a \$group and a \$sum.)

(7) Find the top 5 Greek restaurants in Brooklyn that have the highest total score. Return for each restaurant the restaurant's name and the total score. (HINT: use the aggregate method with \$unwind to parse out the scores array, followed by a \$group and a \$sum.)