```
Task 1
```

```
    create db

           > use warren db
            switched to db warren db
2. drop db
            db.dropDatabase()
             "ok" : 1 }
       a.
create collection
            db.createCollection("test_collection", {autoIndexId: true})
                   "note" : "the autoIndexId option is deprecated and will be removed in a future release
                   "ok" : 1
4. drop collection
             db.test collection.drop()
            true
5. insert document into collection
            > db.createCollection("another_collection")
              "ok" : 1 }
            > db.another_collection.insert({title: "Mongo Db practice", description: "this is my first MongoDb d
            WriteResult({ "nInserted" : 1 })
6. query the document
             db.another_collection.find().pretty()
                    "_id" : ObjectId("5df2d8df6c10e2794150365f"),
                   "title" : "Mongo Db practice",
                    "description": "this is my first MongoDb document"
7. update a document
            > db.another_collection.update({'title':'Mongo Db practice'}, {$set:{'title':'New MongoDB practice'}
            WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
8. delete a document
            > db.another_collection.remove({status: "P"},1)
           WriteResult({ "nRemoved" : 0 })
           > db.another_collection.remove({status: "P"})
           WriteResult({ "nRemoved" : 0 })
           > db.another_collection.remove({})
           WriteResult({ "nRemoved" : 1 })
       a.
```

1. count on "Sandwich" in the name

```
> db.restaurants.find({"name" : /.*Sandwich.*/}).count()
76
>
```

2. list French cuisine in Queens by name only

```
db.restaurants.find({$and : [{cuisine : "French"}, {borough : "Queens"}]}, {name:1, _id:0})
 "name" : "La Baraka Restaurant" }
 "name" :
          "Air France Lounge" }
 "name" :
          "Tournesol" }
 "name" :
          "Winegasm" }
          "Cafe Henri" }
 "name" :
 "name" : "Bistro 33" }
 "name" : "Domaine Wine Bar" }
 "name" : "Cafe Triskell" }
 "name" : "Cannelle Patisserie" }
 "name" : "La Vie" }
 "name" : "Dirty Pierres Bistro" }
 "name" : "Fresca La Crepe" }
 "name" : "Bliss 46 Bistro" }
 "name" : "Bear" }
 "name" : "Cuisine By Claudette" }
 "name" : "Paris Baguette" }
 "name" : "The Baroness Bar" }
 "name" : "Francis Cafe" }
 "name" : "Madame Sou Sou" }
 "name" : "Crepe 'N' Tearia" }
Type "it" for more
```

Descending count of Italian eateries by borough

a.

```
> db.restaurants.aggregate([{"$match": {"cuisine": "Italian"}}, {"$group": { "_id": {"borough": "$borough", "cuisine": "$cuisine"}, "count" : {"$sum" : 1 }}}, {$sort:{"count":-1}}])
{ "_id" : { "borough" : "Manhattan", "cuisine" : "Italian" }, "count" : 621 }
{ "_id" : { "borough" : "Brooklyn", "cuisine" : "Italian" }, "count" : 192 }
{ "_id" : { "borough" : "Queens", "cuisine" : "Italian" }, "count" : 131 }
{ "_id" : { "borough" : "Staten Island", "cuisine" : "Italian" }, "count" : 73 }
{ "_id" : { "borough" : "Bronx", "cuisine" : "Italian" }, "count" : 52 }
>
```

4. List top 5 German restaurants in Manhattan by their sum of scores in descending order

```
db.restaurants.aggregate([{"$match": {"cuisine": "German", "borough": "Manhattan"}}, {$unwind: "$grades
}, {$group:{_id:"$name", sumOfScores: {$sum: "$grades.score"}}}, {$sort: {sumOfScores:-1}}, {$limit:5}])

"_id" : "Edi & The Wolf", "sumOfScores" : 105 }

"_id" : "Blaue Gans", "sumOfScores" : 103 }

"_id" : "Sigmund Pretzel Shop", "sumOfScores" : 71 }

"_id" : "Hallo Berlin", "sumOfScores" : 67 }

"_id" : "Loreley Restaurant", "sumOfScores" : 58 }
```

5. Find the restaurants within the coordinates that have a score greater than 75

```
> db.restaurants.find({$and:[{grades: {$elemMatch:{score:{$gt : 75}}}},{"address.coord" :{$geoWithin : {$
box: [[-74,40.7],[-73.5,40.5]]}}}]}, {_id:0, "name":1})
{ "name" : "Pino'S La Forchetta" }
{ "name" : "Georges Restaurant" }
{ "name" : "Cheikh Umar Futiyu Restaurant" }
>
```