HW 06

## SECTION 01

## Launch

```
C:\Program Files\MongoDB\Server\4.4\bin>mongo
MongoDB shell version v4.4.2
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("0a0da5cc-0b55-4609-8d64-c77617b48efb") }
MongoDB server version: 4.4.2
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
    https://docs.mongodb.com/
Questions? Try the MongoDB Developer Community Forums
    https://community.mongodb.com

The server generated these startup warnings when booting:
    2020-11-26114:48:24.121-07:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
```

1.

```
> use new_mongo_db
switched to db new_mongo_db
```

2.

```
> use new_mango_db
switched to db new_mango_db
> db.dropDatabase()
{ "ok" : 1 }
>
```

3.

```
> use new_mango_db
switched to db new_mango_db
> db.createCollection("test_collection")
{ "ok" : 1 }
>
```

4.

```
> use new_mango_db
switched to db new_mango_db
> db.test_collection.drop()
true
>
```

```
5.
 > db.test_collection.insert({titl
\riteResult({ "nInserted" : 1 })
6.
   db.test_collection.find().pretty()
            "_id" : ObjectId("5fc02aff2e506c77aa0feb67"),
            "title" : "Mongo Db practice",
            "decsription" : "this is my first MongoDB document"
Without ".pretty()"
    o.test_collection.+ind()
_id" : ObjectId("5fc02aff2e506c77aa0feb67"), "title" : "Mongo Db practice", "decsription" : "this is my first MongoDE
7.
 db.test_collection.update({'title':'Mongo Db practice'},{$set:{'title':'Updated MongoDB practice'}})

db.test_collection.update({'title':'Mongo Db practice'},{$set:{'title':'Updated MongoDB practice'}})

db.test_collection.update({'title':'Mongo Db practice'},{$set:{'title':'Updated MongoDB practice'}})
8.
  db.test_collection.remove({ status :"P"},1)
 riteResult({ "nRemoved" : 0 })
  db.test_collection.remove({ status :"P"})
  db.test_collection.remove({})
 /riteResult({ "nRemoved" : 1 })
```

## Section 02

1. db.restaurants.count()

```
> db.restaurants.count()
25359
>
```

2.db.restaurants.distinct('cuisine').sort()

```
db.restaurants.distinct("cuisine").sort()
      "Afghan",
      "African",
"American",
      "Armenian",
      "Asian",
"Australian",
      "Bagels/Pretzels",
      "Bakery",
"Bangladeshi",
      "Bottled beverages, including water, sodas, juices, etc.",
      "Brazilian",
      "CafÃ@/Coffee/Tea",
      "Cajun",
      "Chicken",
      "Chilean",
      "Chinese",
      "Chinese/Cuban",
      "Chinese/Japanese",
      "Creole/Cajun",
      "Czech",
      "Delicatessen",
      "Eastern European",
      "Egyptian",
      "English",
"Ethiopian",
      "Filipino",
      "Fruits/Vegetables",
      "German",
      "Greek",
      "Hamburgers",
      "Hawaiian",
      "Hotdogs",
      "Hotdogs/Pretzels",
```

```
"Ice Cream, Gelato, Yogurt, Ices",
"Iranian",
"Italian",
"Japanese",
"Jewish/Kosher",
"Latin (Cuban, Dominican, Puerto Rican, South & Central American)",
"Not Listed/Not Applicable",
"Nuts/Confectionary",
"Pancakes/Waffles",
"Pizza/Italian",
"Portuguese",
"Sandwiches/Salads/Mixed Buffet",
"Soups",
"Soups & Sandwiches",
"Spanish",
"Steak",
"Tapas",
"Turkish",
"Vegetarian",
"Vietnamese/Cambodian/Malaysia"
```

"name" : "Cheese Grille" }

"name" : "Pair Wine And Cheese" }

**CSCI 3287** 3. db.restaurants.find({ 'address.zipcode': "10025", 'cuisine': "Chinese"}, {name: 1, id: 0}).pretty() db.restaurants.find({'address.zipcode':"10025", 'cuisine':"Chinese"}, {name:1, \_id:0}).pretty() "name" : "Ollies Noodle Shop & Grille" } "name" : "New Asia" } "name" : "Legend Upper West" }
"name" : "Concord Garden Restaurant" }
"name" : "Zhong Wah Chinese Restaurant" }
"name" : "New Kam Lai Restaurant" } "name" : "Xian Famous Foods" }
"name" : "Benny'S Lung Sheng Restaurant" }
"name" : "Hunan Park" } "name" : "Hunan Park" }
"name" : "Hunan Chen'S Kitchen" }
"name" : "Sugarcane Vietnamese Cooking" } "name" : "Empire Garden" } 4.db.restaurants.find({\$and:[{`borough': "Brooklyn"}, {\$or:[{'cuisine': "Greek", 'cuisine': "American"}]}]}).count() 5.db.restaurants.find({'name': /.\*Cheese.\*/i}, {'name': 1, 'id': 0)).pretty() db.restaurants.find({'name':/.\*Cheese.\*/i}, {'name':1, '\_id':0}).pretty() "name" : "Xtra Cheese Pizzeria" } : "Chuck E Cheese'S" "name" : "Chuck E Cheese'S" "name" : "Rocco'S Italian Sausages & Philly Cheesesteaks" } "name" : "Chuck E Cheese'S" "name" : "Chuck E Cheese'S" "name" : "Chuck E Cheese'S" \$
"name" : "Casellula Cheese & Wine Cafe" } "name" : "Philly Cheesesteaks" } "name" : "5 Star Cheesesteak And Pizza" } "name" : "Beecher'S Handmade Cheese" } "name" : "Landin Macaroni And Cheese" } "name" : "Murray'S Cheese Bar" }
"name" : "Tommys Famous Cheesesteaks & Pizza" } "name" : "The Original Steak-N-Cheese" } "name" : "Earl'S Beer & Cheese" } "name" : "Chuck E. Cheese'S" } "name" : "Big Cheese Pizza" } ype "it" for more

```
6. db.restaurants.aggregate([{$match:{'cuisine': "French"}},
{$group:{_id:"$borough", count:{$sum: 1}}},{$sort:{count: -1}}])
```

```
> db.restaurants.aggregate([{$match:{'cuisine': "French"}}, {$group:{_id:"$borough", count:{$sum: 1}}}
,{$sort:{count: -1}}])
{ "_id" : "Manhattan", "count" : 266 }
{ "_id" : "Brooklyn", "count" : 54 }
{ "_id" : "Queens", "count" : 21 }
{ "_id" : "Staten Island", "count" : 2 }
{ "_id" : "Bronx", "count" : 1 }
```

7. db.restaurants.aggregate([{\$match:{'cuisine':"Italian",
 'borough':"Manhattan"}}, {\$unwind:"\$grades"}, {\$group: {\_id: "\$name",
 count:{\$sum:"\$grades.score"}}}, {\$sort:{count: -1}},{\$limit: 5}])

```
> db.restaurants.aggregate([{$match:{'cuisine':"Italian", 'borough':"Manhattan"}}, {$unwind:"$grades"}, {$group:
        {_id: "$name", count:{$sum:"$grades.score"}}}, {$sort:{count: -1}},{$limit: 5}])
{ "_id" : "Nanni Restaurant", "count" : 225 }
{ "_id" : "Bocca Di Bacco", "count" : 216 }
{ "_id" : "Lasagna Restaurant", "count" : 202 }
{ "_id" : "Coppola'S", "count" : 202 }
{ "_id" : "Gallo Nero", "count" : 180 }
>
```