MongoDB exercise

Load db dump into MongoDB

Create useful folders

mkdir mongodb

cd mongodb

mkdir data

Create and run MongoDB on Docker

```
docker run \
--publish=27017:27017 \
--volume=./data:/data/db \
--name=mongo \
-d \
mongo
```

Download test data from Moodle and unzip it to any location

Import the data

Download mongoDB Compass

Create new database and new collection

(call it restaurants or anything you like)

Go to «ADD DATA», then «Import JSON» and select the file *restaurants.json*

Querying the data

Write a MongoDB query to display all the documents in the collection

db.restaurants.find();

Write a MongoDB query to display the fields restaurant_id, name, borough and cuisine for all the documents in the collection restaurant

db.restaurants.find({},{"restaurant_id": 1,"name":1,"borough":1,"cuisine":1});

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.

db.restaurants.find({},{"restaurant_id": 1,"name":1,"borough":1,"cuisine":1,"_id":0});

Write a MongoDB query to display all the restaurant which is in the borough Bronx.

db.restaurants.find({"borough": "Bronx"});

Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx.

db.restaurants.find({"borough": "Bronx"}).limit(5);

Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.

db.restaurants.find({"borough": "Bronx"}).skip(5).limit(5);

Write a MongoDB query to find the restaurants who achieved a score more than 90.

db.restaurants.find({grades : { \$elemMatch:{"score":{\$gt : 90}}}});

Write a MongoDB query to find the restaurants that achieved a score is more than 80 but less than 100.

db.restaurants.find({grades : { \$elemMatch:{"score":{\$gt : 80 , \$lt :100}}}});

Write a MongoDB query to find the restaurants that do not prepare any cuisine of 'American' and their grade score more than 70

Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a grade point 'A' not belongs to the borough Brooklyn. The document must be displayed according to the cuisine in descending order.

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.

Write a MongoDB query to find the restaurants which belong to the borough Bronx and prepared either American or Chinese dish.