Assignment 1

1. Write a MongoDB query to display all the documents in the collection restaurants.

> use dbda2022

switched to db dbda2022

> show collections

inventory

restaurant

student

> db.restaurants.find()

```
{ "_id" : ObjectId("625f7eb861649a6d1bedaf7b"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-01-24T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-03-10T00:00:00Z"), "grade" : "B", "score" : 14 } ], "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
```

- 2. 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});

```
{ "_id" : ObjectId("625f7eb861649a6d1bedaf7b"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("625f7eb861649a6d1bedaf7c"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("625f7eb861649a6d1bedaf7d"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("625f7eb861649a6d1bedaf7e"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
```

```
> db.restaurants.find({},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1,_id:0})
{ "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop",
"restaurant_id": "30075445" }
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant id" :
"30112340" }
4.
> db.restaurants.find({},{"restaurant_id":1,"name":1,"borough":1,"address.zipcode"
:1,"_id":0})
{ "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "name" : "Morris Park Bake Shop",
"restaurant_id": "30075445" }
{ "address" : { "zipcode" : "11225" }, "borough" : "Brooklyn", "name" : "Wendy'S",
"restaurant id": "30112340" }
5.
> db.restaurants.find({},{"borough":"Bronx"})
{ "_id" : ObjectId("625f7eb861649a6d1bedaf7b"), "borough" : "Bronx" }
{ " id" : ObjectId("625f7eb861649a6d1bedaf7c"), "borough" : "Bronx" }
{ " id" : ObjectId("625f7eb861649a6d1bedaf7d"), "borough" : "Bronx" }
6.
> db.restaurants.find({},{"borough":"Bronx"}).limit(5)
{ " id" : ObjectId("625f7eb861649a6d1bedaf7b"), "borough" : "Bronx" }
{ " id" : ObjectId("625f7eb861649a6d1bedaf7c"), "borough" : "Bronx" }
```

```
> db.restaurants.find({},{"borough":"Bronx"}).skip(5).limit(5)
{ "_id" : ObjectId("625f7eb861649a6d1bedaf80"), "borough" : "Bronx" }
{ "_id" : ObjectId("625f7eb861649a6d1bedaf81"), "borough" : "Bronx" }
8.
> db.restaurants.find({"grades.score":{$gt:90}}).pretty()
{
    " id": ObjectId("625f7eb861649a6d1bedb0d9"),
    "address" : {
        "building": "65",
        "coord" : [
            -73.9782725,
             40.7624022
        "street": "West 54 Street",
        "zipcode": "10019"
    },
    "borough": "Manhattan",
    "cuisine": "American",
    "grades" : [
        {
             "date": ISODate("2014-08-22T00:00:00Z"),
             "grade": "A",
```

```
"score" : 11
        },
        {
             "date": ISODate("2014-03-28T00:00:00Z"),
             "grade": "C",
             "score" : 131
        },
        {
             "date": ISODate("2013-09-25T00:00:00Z"),
9.
> db.restaurants.find({"grades.score":{$gt:80,$lt:100}}).pretty()
{
    "_id": ObjectId("625f7eb861649a6d1bedb0d9"),
    "address" : {
        "building": "65",
        "coord" : [
            -73.9782725,
            40.7624022
        ],
        "street": "West 54 Street",
        "zipcode": "10019"
    },
    "borough" : "Manhattan",
    "cuisine": "American",
    "grades" : [
        {
             "date": ISODate("2014-08-22T00:00:00Z"),
```

```
"grade": "A",
             "score" : 11
        },
        {
             "date": ISODate("2014-03-28T00:00:00Z"),
             "grade" : "C",
             "score" : 131
        },
        {
             "date": ISODate("2013-09-25T00:00:00Z"),
             "grade" : "A",
             "score" : 11
        },
        {
10.
db.restaurants.find({"address.coord":{$lt: -95.754168}}).pretty()
{
    " id": ObjectId("625f7eb861649a6d1bedb5c3"),
    "address" : {
        "building": "3707",
        "coord" : [
            -101.8945214,
            33.5197474
        ],
        "street": "82 Street",
        "zipcode" : "11372"
    },
```

```
> db.restaurants.find( {"cuisine": {$ne :"American "}, "grades.score" :{$gt
:70}, "address.coord" : {$lt :-65.754168}}).pretty()
Or with and oprator----
> db.restaurants.find({$and:[{"cuisine": {$ne :"American "}},{"grades.score"
:{$gt :70}}, {"address.coord" : {$lt :-65.754168}}]}).pretty()
{
    "_id": ObjectId("625f7eb861649a6d1bedb17a"),
    "address" : {
        "building": "345",
        "coord" : [
           -73.9864626,
            40.7266739
        ],
        "street": "East 6 Street",
        "zipcode": "10003"
    },
    "borough": "Manhattan",
    "cuisine": "Indian",
12.
> db.restaurants.find({"cuisine":{$ne:"American
"},"grades.score":{$gt:70},"address.coord":{$lt: -65.754168}}).pretty()
{
    "_id": ObjectId("625f7eb861649a6d1bedb17a"),
    "address" : {
        "building": "345",
```

```
"coord" : [
            -73.9864626,
            40.7266739
        ],
        "street": "East 6 Street",
13.
> db.restaurants.find({"cuisine":{$ne:"American"},"grades.grade":{$eq:
"A"},"borough":{$ne: "Beooklyn"}}).sort({"cuisine": -1}).pretty()
{
    " id": ObjectId("625f7eb861649a6d1bedb687"),
    "address" : {
        "building": "89",
        "coord" : [
            -73.9995899,
            40.7168015
        ],
        "street": "Baxter Street",
        "zipcode": "10013"
14.
> db.restaurants.find({"name":/^Wil/},{"restaurant_id":
1,"name":1,"borough":1,"cuisine":1})
{ "id": ObjectId("625f7eb861649a6d1bedaf82"), "borough": "Brooklyn", "cuisine":
"Delicatessen", "name": "Wilken'S Fine Food", "restaurant id": "40356483" }
{ " id" : ObjectId("625f7eb861649a6d1bedaf85"), "borough" : "Bronx", "cuisine" :
"American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }
```

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15.
```

```
>
db.restaurants.find({"name":/ces$/},{"restaurant_id":1,"name":1,"borought
":1,"cuisine":1}).pretty()
{
    "_id":ObjectId("625f7eb861649a6d1bedb40e"),
    "cuisine":"American",
    "name":"Pieces",
    "restaurant_id":"40399910"
}
```