I completed today's assignment that includes following tasks. It took me about 2 hours to finish this lab. I found interesting that we can call project as a function. for example: db.restaurants.find().project(); but it was not working on the shell. So i wrote different way.

```
1. db.restaurants.find({})
2. db.restaurants.aggregate([{ $project: {restaurant_id: 1, name: 1,
   district: 1, cuisine: 1}}])
3. db.restaurants.aggregate([{ $project: {_id: 0, restaurant_id: 1, name: 1,
   district: 1, cuisine: 1}}])
4. db.restaurants.aggregate([{ $project: {_id: 0, restaurant_id: 1, name: 1,
   district: 1, zipcode: "$address.zipcode"}}])
5.  db.restaurants.find({ "district": "Bronx"})
6. db.restaurants.find({ "district": "Bronx"}).limit(5)
7. db.restaurants.find({ "district": "Bronx"}).skip(5).limit(5)
8. db.restaurants.find({ "address.coord.0": {$lt: -95.754168}})
9. db.restaurants.find({ "address.coord.0": {$lt: -65.754168}, cuisine: {$ne:
   "American"}, "grades.score": { $gt: 70}})
10. db.restaurants.find({name: {$regex: '^Wil'}}, {restaurant_id:1, name:1,
    district:1, cuisine:1})
11. db.restaurants.find({name: {$regex: 'ces$'}}, {restaurant_id:1, name:1,
    district:1, cuisine:1})
12. db.restaurants.find({name: {$regex: 'Reg'}}, {restaurant_id:1, name:1,
    district:1, cuisine:1})
13. db.restaurants.find({ district: "Bronx", cuisine: {$in: ["American",
    "Chinese"]}})
14. db.restaurants.find({district: {$in: ["Staten Island", "Queens",
    "Bronx", "Brooklyn"]}}, {restaurant_id:1, name:1, district:1, cuisine:1})
15. db.restaurants.find({district: {$nin: ["Staten Island", "Queens",
    "Bronx", "Brooklyn"]}})
16. db.restaurants.find({"grades.score": {$lte: 10}}, {restaurant_id:1,
    name:1, district:1, cuisine:1})
17. db.restaurants.find({"address.coord.1": {$lte: 52, $gt:42}}, {address: 1,
    restaurant_id: 1, name: 1})
18. db.restaurants.find().sort({name:1})
19. db.restaurants.find().sort({name:-1})
20. db.restaurants.find().sort({cuisine:1, district: -1})
```