**Solutions to the exercise:**

1. collection.find({});
2. collection.find({}, {resturant\_id: 1,name:1,district: 1,cuisine:1});
3. collection.find({},{resturant\_id: 1,name:1,district: 1,cuisine:1,\_id:0});
4. collection.find({},{resturant\_id: 1,name:1,district: 1, "address.zipcode": 1,\_id:0});
5. collection.find({district:"Bronx"});
6. collection.find({district:"Bronx"}).limit(5);
7. collection.find({district:"Bronx"}).skip(5).limit(5);
8. collection.find({"address.coord":{$lt: -95.754168}});
9. collection.find({cuisine: {$nin:["America"]},coord:{$lt: -65.754168}, "grades.score":{$gt:70}});
10. collection.find({name:{$regex:"Wil"}}).project( {resturant\_id: 1,name:1,district: 1,cuisine:1});
11. collection.find({name:{$regex:"ces$"}}).project( {resturant\_id: 1,name:1,district: 1,cuisine:1});
12. collection.find({name:{$regex:"Reg"}}).project( {resturant\_id: 1,name:1,district: 1,cuisine:1});
13. collection.find({district: "Bronx",cuisine: {$in:["American","Chinese"]}});
14. collection.find({district:{$in:["Staten Island","Queens","Bronx","Brooklyn"]}}).project( {resturant\_id: 1,name:1,district: 1,cuisine:1});
15. collection.find({district:{$nin:["Staten Island","Queens","Bronx","Brooklyn"]}}).project( {resturant\_id: 1,name:1,district: 1,cuisine:1});
16. collection.find({"grades.score": {$lt:10}}).project( {resturant\_id: 1,name:1,district: 1,cuisine:1});
17. collection.find({"address.coord.2": {$gt:42,$lte: 52}}).project({resturant\_id :1,name:1,address:1});
18. collection.find({}).sort({name:1});
19. collection.find({}).sort({name: -1});
20. collection.find({},{name:1,cuisine:1}).sort({name:1,cuisine:-1});
21. collection.find({"address.street": {$exists:0}});
22. collection.find({"address.coord": {$type: "Double"}});
23. collection.find({name: {$regex: "^Mad"}}).project({name:1,district:1,"address.coord.1":1,"address.coord.2":1,cuisine:1});