-— 1 задание —-

use learn

db.createCollection("unicorns")

show collections

document=({name: 'Dunx', dob: new Date(1976, 6, 18, 18, 18), loves: ['grape', 'watermelon'], weight: 704, gender: 'm', vampires: 165})

db.unicorns.insert(document)

db.unicorns.find()

db.unicorns.find({name: "Solnara"})

db.unicorns.find({loves: "apple"})

db.unicorns.find({loves: "apple", weight: 550})

db.unicorns.find().limit(3)

db.unicorns.find().skip(3)

db.unicorns.find().sort({name: 1})

db.unicorns.find().sort({name: 1}).skip(3).limit(3)

-— 2 задание —-

db.unicorns.find({gender: "m"}).sort({name: 1})

db.unicorns.find({gender: "f"}).sort({name: 1}).limit(3)

db.unicorns.find({gender: "f", loves: "carrot"}).limit(1) db.unicorns.findOne({gender: "f", loves: "carrot"})

---3 задание —-

db.unicorns.find({gender: "m"}, {gender: false, dob: 0}).sort({name: 1})

-— 4 задание —-

db.unicorns.find().sort({ $natural: -1 }).limit(3)

— 5 задание

db.unicorns.find({},{loves: {$slice:1}, \_id: false})

-— 6 задание —-

db.unicorns.find({gender: "f", weight: {$gt : 500, $lt: 700}}, {\_id: false})

-— 7 задание —-

db.unicorns.find({gender: "m", weight: {$gt : 500}, loves: {$all: ["grape", "lemon"]}}, {\_id: false})

-— 8 задание —-

db.unicorns.find({vampires: {$exists: false}})

6 лаба

1. db.towns.find({"mayor.party": "I"}, {\_id: false, populatiuon: false, last\_sensus: false, famous\_for: false})

db.towns.find({"mayor.party": {$exists: false}}, {\_id: false, populatiuon: false, last\_sensus: false, famous\_for: false})

2.var cursor = db.unicorns.find({gender:"m"});null;

cursor.limit(2).sort({name:1});null;

cursor.forEach(function(obj){print(obj.name);})

3. db.unicorns.find({gender: "f", weight: {$gt : 500, $lt: 600}}, {\_id: false}).count()

5. db.unicorns.aggregate({"$group":{\_id:"$gender",count:{$sum:1}}})

6. db.unicorns.save({name: 'Barny', loves: ['grape'], weight: 340, gender: 'm'})

7. db.unicorns.updateOne({name : "Ayna"}, {$set: {weight: 800, vampires : 51}}, {upsert: true})

8. db.unicorns.updateOne({name : "Raleigh"}, {$set: {loves: ["redbull"]}}, {upsert: true})

9. db.unicorns.updateMany({}, {$inc: {vampires: 5}}, {multi:true})

10. db.towns.updateOne({name: "Portland"}, {$set: {"mayor.party": ""}}, {upsert: true})

11. db.unicorns.updateOne({name : "Pilot"}, {$push: {loves: "chocolate"}}, {upsert: true})

12. db.unicorns.updateOne({name : "Aurora"}, {$push: {loves: "sugar", "limons"}}, {upsert: true})

13. db.towns.remove({"mayor.party": ""})

db.towns.remove({})

2.1 db.createCollection("areas")

db.areas.insert({\_id:"field", name:"Magic Fileds"})

db.areas.insert({\_id:"clouds", name:"Magic Clouds"})

db.unicorns.insert({name: 'New', dob: new Date(1976, 6, 18, 18, 18), loves: ['grape', 'watermelon'], weight: 704, gender: 'm', vampires: 165, area:{$ref:"areas", $id: "field"}})

db.unicorns.updateOne({\_id:ObjectId("636a5020f6cb7fcb498e2d01")},{$set: {area:{$ref:"areas", $id: "clouds"}}})

2.2 db.unicorns.ensureIndex({"name" : 1}, {"unique" : true})

2.3 db.unicorns.getIndexes()

db.unicorns.dropIndex("name\_1")

}

2.4 db.createCollection("numbers")

for(i = 0; i < 100000; i++){db.numbers.insert({value: i})}

db.numbers.find().sort({$natural:-1}).limit(4)

db.numbers.explain("executionStats").find({})

db.numbers.ensureIndex({"value" : 1})

db.numbers.dropIndex("value\_1")