1.

A use learn

b db.unicorns.insert({name: 'Horny', dob: new Date(1992,2,13,7,47), loves: ['carrot','papaya'], weight: 600, gender: 'm', vampires: 63});

db.unicorns.insert({name: 'Horny', dob: new Date(1992,2,13,7,47), loves: ['carrot','papaya'], weight: 600, gender: 'm', vampires: 63});

db.unicorns.insert({name: 'Aurora', dob: new Date(1991, 0, 24, 13, 0), loves: ['carrot', 'grape'], weight: 450, gender: 'f', vampires: 43});

db.unicorns.insert({name: 'Unicrom', dob: new Date(1973, 1, 9, 22, 10), loves: ['energon', 'redbull'], weight: 984, gender: 'm', vampires: 182});

db.unicorns.insert({name: 'Roooooodles', dob: new Date(1979, 7, 18, 18, 44), loves: ['apple'], weight: 575, gender: 'm', vampires: 99});

db.unicorns.insert({name: 'Solnara', dob: new Date(1985, 6, 4, 2, 1), loves:['apple', 'carrot', 'chocolate'], weight:550, gender:'f', vampires:80});

db.unicorns.insert({name:'Ayna', dob: new Date(1998, 2, 7, 8, 30), loves: ['strawberry', 'lemon'], weight: 733, gender: 'f', vampires: 40});

db.unicorns.insert({name:'Kenny', dob: new Date(1997, 6, 1, 10, 42), loves: ['grape', 'lemon'], weight: 690, gender: 'm', vampires: 39});

db.unicorns.insert({name: 'Raleigh', dob: new Date(2005, 4, 3, 0, 57), loves: ['apple', 'sugar'], weight: 421, gender: 'm', vampires: 2});

db.unicorns.insert({name: 'Leia', dob: new Date(2001, 9, 8, 14, 53), loves: ['apple', 'watermelon'], weight: 601, gender: 'f', vampires: 33});

db.unicorns.insert({name: 'Pilot', dob: new Date(1997, 2, 1, 5, 3), loves: ['apple', 'watermelon'], weight: 650, gender: 'm', vampires: 54});

db.unicorns.insert({name: 'Nimue', dob: new Date(1999, 11, 20, 16, 15), loves: ['grape', 'carrot'], weight: 540, gender: 'f'});

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

db.unicrons.insertOne(document)

e db.unicorns.find({name: "Kenny"})

2.

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

db.unicorns.find({gender:”m”}).sort({name:1}).limit(3)

B db.unicorns.find({gender:”f”, loves: “carrot”}).limit(3)

db.unicorns.findOne({gender:”f”, loves: “carrot”})

3. db.unicorns.find({gender:”m”},{ dob: false, gender: false})

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

5. db.unicorns.find({},{ \_id:0 }, {loves: {$slice : 1}})

5. db.unicorns.find({$and:[{gender:"f"}, {weight: {$gt : 500, $lt: 700}}]}, { \_id:0 })

6. db.unicorns.find({$and:[{gender:"m"}, {weight: {$gt : 500, $lt: 700}}, {loves:{$all : ["grape", "lemon"]}}]},{ \_id:0 })

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

