

ASSIGNMENT 13

Exercise 1:

Command:

```
db.unicorns.find({ weight :{$lt: 500}});
```

Output:

```
>
> db.unicorns.find({weight :{$lt:500}});
{ "_id" : ObjectId("6270b00b7b7ced667d55eb16"), "name" : "Aurora", "dob" : ISODate("1991-01-24T13:00:00Z"), "loves" : [ "carrot", "grape" ], "weight" : 450, "gender" : "f", "vampires" : 43 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1c"), "name" : "Raleigh", "dob" : ISODate("2005-05-03T00:57:00Z"), "loves" : [ "apple", "sugar" ], "weight" : 421, "gender" : "m", "vampires" : 2 }
>
```

Exercise 2:

Command:

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

Output:

```
> db.unicorns.find({ loves: "apple"});
{ "_id" : ObjectId("6270b00b7b7ced667d55eb18"), "name" : "Roooooondles", "dob" : ISODate("1979-08-18T18:44:00Z"), "loves" : [ "apple" ], "weight" : 575, "gender" : "m", "vampires" : 99 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb19"), "name" : "Solnara", "dob" : ISODate("1985-07-04T02:01:00Z"), "loves" : [ "apple", "carrot", "chocolate" ], "weight" : 550, "gender" : "ff", "vampires" : 80 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1c"), "name" : "Raleigh", "dob" : ISODate("2005-05-03T00:57:00Z"), "loves" : [ "apple", "sugar" ], "weight" : 421, "gender" : "m", "vampires" : 2 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1d"), "name" : "Leia", "dob" : ISODate("2001-10-08T14:53:00Z"), "loves" : [ "apple", "watermelon" ], "weight" : 601, "gender" : "f", "vampires" : 33 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1e"), "name" : "Pilot", "dob" : ISODate("1997-03-01T05:03:00Z"), "loves" : [ "apple", "watermelon" ], "weight" : 650, "gender" : "m", "vampires" : 54 }
>
```

Exercise 3:

Commands:

```
db.unicorns.insertOne({ name: 'Malini',dob: new Date(2008, 11, 03),loves: ['pears', 'grapes'],weight: 450,gender: 'f',vampires: 23,horns: 1});
```

```
db.unicorns.find();
```

Output:

```
> db.unicorns.insertOne({ name: 'Malini',dob: new Date(2008, 11, 03),loves: ['pears', 'grapes'],weight: 450,gender: 'f',vampires: 23,horns: 1});
{
  "acknowledged" : true,
  "insertedId" : ObjectId("6270b3507b7ced667d55eb22")
}
> db.unicorns.find();
{ "_id" : ObjectId("6270b0017b7ced667d55eb14"), "name" : "Leto", "gender" : "m", "home" : "Arrakeen", "worm" : false }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb15"), "name" : "Horny", "dob" : ISODate("1992-03-13T07:47:00Z"), "loves" : [ "carrot", "papaya" ], "weight" : 600, "gender" : "m", "vampires" : 63 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb16"), "name" : "Aurora", "dob" : ISODate("1991-01-24T13:00:00Z"), "loves" : [ "carrot", "grape" ], "weight" : 450, "gender" : "f", "vampires" : 43 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb17"), "name" : "Unicorn", "dob" : ISODate("1973-02-09T22:10:00Z"), "loves" : [ "energon", "redbull" ], "weight" : 984, "gender" : "m", "vampires" : 182 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb18"), "name" : "Roooooondles", "dob" : ISODate("1979-08-18T18:44:00Z"), "loves" : [ "apple" ], "weight" : 575, "gender" : "m", "vampires" : 99 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb19"), "name" : "Solnara", "dob" : ISODate("1985-07-04T02:01:00Z"), "loves" : [ "apple", "carrot", "chocolate" ], "weight" : 550, "gender" : "ff", "vampires" : 80 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1a"), "name" : "Ayna", "dob" : ISODate("1998-03-07T08:30:00Z"), "loves" : [ "strawberry", "lemon" ], "weight" : 733, "gender" : "ff", "vampires" : 40 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1b"), "name" : "Kenny", "dob" : ISODate("1997-07-01T10:42:00Z"), "loves" : [ "grape", "lemon" ], "weight" : 690, "gender" : "m", "vampires" : 39 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1c"), "name" : "Raleigh", "dob" : ISODate("2005-05-03T00:57:00Z"), "loves" : [ "apple", "sugar" ], "weight" : 421, "gender" : "m", "vampires" : 2 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1d"), "name" : "Leia", "dob" : ISODate("2001-10-08T14:53:00Z"), "loves" : [ "apple", "watermelon" ], "weight" : 601, "gender" : "f", "vampires" : 33 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1e"), "name" : "Pilot", "dob" : ISODate("1997-03-01T05:03:00Z"), "loves" : [ "apple", "watermelon" ], "weight" : 650, "gender" : "m", "vampires" : 54 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1f"), "name" : "Nimue", "dob" : ISODate("1999-12-20T16:16:00Z"), "loves" : [ "grape", "carrot" ], "weight" : 540, "gender" : "ff" }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb20"), "name" : "Dunk", "dob" : ISODate("1976-07-18T18:18:00Z"), "loves" : [ "grape", "watermelon" ], "weight" : 704, "gender" : "m", "vampires" : 165 }
{ "_id" : ObjectId("6270b0207b7ced667d55eb21"), "name" : "Leto", "gender" : "m", "home" : "Arrakeen", "worm" : false }
{ "_id" : ObjectId("6270b3507b7ced667d55eb22"), "name" : "Malini", "dob" : ISODate("2008-12-03T00:00:00Z"), "loves" : [ "pears", "grapes" ], "weight" : 450, "gender" : "ff", "vampires" : 23, "horns" : 1 }
>
```

Exercise 4:

Commands:

```
db.unicorns.updateOne({name: "Malini"},{$push: {loves: 'apricots'}});
```

```
db.unicorns.find({name: "Malini"});
```

Output:

```
> db.unicorns.updateOne({name: "Malini"},{$push: {loves: 'apricots'}});
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.unicorns.find({name: "Malini"});
{ "_id" : ObjectId("6270b3507b7ced667d55eb22"), "name" : "Malini", "dob" : ISODate("2008-12-03T00:00:00Z"), "loves" : [ "pears", "grapes", "apricots" ], "weight" : 450, "gender" : "f", "vampires" : 23, "horns" : 1 }
> █
```

Exercise 5:

Commands:

```
db.unicorns.deleteMany({weight: { $gt: 600}});
```

```
db.unicorns.find();
```

Output:

```
> db.unicorns.deleteMany({weight: { $gt: 600}});
{ "acknowledged" : true, "deletedCount" : 6 }
> db.unicorns.find();
{ "_id" : ObjectId("6270b0017b7ced667d55eb14"), "name" : "Leto", "gender" : "m", "home" : "Arrakeen", "worm" : false }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb15"), "name" : "Horny", "dob" : ISODate("1992-03-13T07:47:00Z"), "loves" : [ "carrot", "papaya" ], "weight" : 600, "gender" : "m", "vampires" : 63 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb16"), "name" : "Aurora", "dob" : ISODate("1991-01-24T13:00:00Z"), "loves" : [ "carrot", "grape" ], "weight" : 450, "gender" : "f", "vampires" : 43 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb18"), "name" : "Rocoooodles", "dob" : ISODate("1979-08-18T18:44:00Z"), "loves" : [ "apple" ], "weight" : 575, "gender" : "m", "vampires" : 99 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb19"), "name" : "Solnara", "dob" : ISODate("1985-07-04T02:01:00Z"), "loves" : [ "apple", "carrot", "chocolate" ], "weight" : 550, "gender" : "f", "vampires" : 80 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1c"), "name" : "Raleigh", "dob" : ISODate("2005-05-03T00:57:00Z"), "loves" : [ "apple", "sugar" ], "weight" : 421, "gender" : "m", "vampires" : 2 }
{ "_id" : ObjectId("6270b00b7b7ced667d55eb1f"), "name" : "Nimue", "dob" : ISODate("1999-12-20T16:15:00Z"), "loves" : [ "grape", "carrot" ], "weight" : 540, "gender" : "f" }
{ "_id" : ObjectId("6270b0207b7ced667d55eb21"), "name" : "Leto", "gender" : "m", "home" : "Arrakeen", "worm" : false }
{ "_id" : ObjectId("6270b3507b7ced667d55eb22"), "name" : "Malini", "dob" : ISODate("2008-12-03T00:00:00Z"), "loves" : [ "pears", "grapes", "apricots" ], "weight" : 450, "gender" : "f", "vampires" : 23, "horns" : 1 }
> █
```