

CS620

HW4

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2.) Create Databases

```
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> db
test
> use Company
switched to db Company
> use University
switched to db University
>
```

3.) Drop Database

```
> db
University
> db.dropDatabase();
{ "ok" : 1 }
```

4.) Create User

```
> db.createCollection('customers');
{ "ok" : 1 }
> show collections
customers
>
```

5.) Create Collection

```
> db.createUser({
... user: "John",
... pwd: "1234",
... roles: ["readWrite", "dbAdmin"]
... }
... )
Successfully added user: { "user" : "John", "roles" : [ "readWrite", "dbAdmin" ] }
>
```

6.) Insert into collection

```
> db.customers.insert({first_name:"John", last_name:"Smith"});
WriteResult({ "nInserted" : 1 })
> db.customers.insert({first_name:"Alicia", last_name:"Zelaya"});
WriteResult({ "nInserted" : 1 })
> db.customers.insert({first_name:"Jennifer", last_name:"Wallace"});
WriteResult({ "nInserted" : 1 })
> db.customers.insert({first_name:"Ahmad", last_name:"Jabbar"});
WriteResult({ "nInserted" : 1 })
> db.customers.insert({first_name:"James", last_name:"Borg"});
WriteResult({ "nInserted" : 1 })
>
```

7.) Find data

```
> db.customers.find();
{ "_id" : ObjectId("5f9cf3f583a1e83d7f514616"), "first_name" : "Jon", "last_name" : "Doe" }
{ "_id" : ObjectId("5f9cf48083a1e83d7f514617"), "first_name" : "John", "last_name" : "Smith" }
{ "_id" : ObjectId("5f9cf49b83a1e83d7f514618"), "first_name" : "Alicia", "last_name" : "Zelaya" }
{ "_id" : ObjectId("5f9cf4b483a1e83d7f514619"), "first_name" : "Jennifer", "last_name" : "Wallace" }
{ "_id" : ObjectId("5f9cf4cf83a1e83d7f51461a"), "first_name" : "Ahmad", "last_name" : "Jabbar" }
{ "_id" : ObjectId("5f9cf4dd83a1e83d7f51461b"), "first_name" : "James", "last_name" : "Borg" }
{ "_id" : ObjectId("5f9cf65c83a1e83d7f51461c"), "first_name" : "Sam", "last_name" : "Smith" }
{ "_id" : ObjectId("5f9cf65c83a1e83d7f51461d"), "first_name" : "Jade", "last_name" : "Smith", "gender" : "female" }
>
```

```
> db.customers.find({first_name:{$eq:"Ahmad"}});
{ "_id" : ObjectId("5f9cf4cf83a1e83d7f51461a"), "first_name" : "Ahmad", "last_name" : "Jabbar" }
> db.customers.find({first_name: /Ah/});
{ "_id" : ObjectId("5f9cf4cf83a1e83d7f51461a"), "first_name" : "Ahmad", "last_name" : "Jabbar" }
> db.customers.find({}, {first_name: true});
{ "_id" : ObjectId("5f9cf3f583a1e83d7f514616"), "first_name" : "Jon" }
{ "_id" : ObjectId("5f9cf48083a1e83d7f514617"), "first_name" : "John" }
{ "_id" : ObjectId("5f9cf49b83a1e83d7f514618"), "first_name" : "Alicia" }
{ "_id" : ObjectId("5f9cf4b483a1e83d7f514619"), "first_name" : "Jennifer" }
{ "_id" : ObjectId("5f9cf4cf83a1e83d7f51461a"), "first_name" : "Ahmad" }
{ "_id" : ObjectId("5f9cf4dd83a1e83d7f51461b"), "first_name" : "James" }
```

9.) Array Insert

```
> db.pets.insert([{name: "Mikey", species: "Gerbil"}, {name: "Davey Bungoolian", species: "Piranha"}, {name: "Suzy B", species: "Cat"}, {name: "Mikey", species: "Hotdog"}, {name: "Terrence", species: "Sausagedog"}, {name: "Philomena Jones", species: "Cat"}, ]);
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 6,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})

> db.pets.insert([{name: "Pete", species:"Piranha"}, {name: "Henry", species: "Naked Mole Rat"}]);
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 2,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})

> db.pets.find();
{ "_id" : ObjectId("5f9cf97a83a1e83d7f51461e"), "name" : "Mikey", "species" : "Gerbil" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f51461f"), "name" : "Davey Bungoolian", "species" : "Piranha" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514620"), "name" : "Suzy B", "species" : "Cat" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514621"), "name" : "Mikey", "species" : "Hotdog" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514622"), "name" : "Terrence", "species" : "Sausagedog" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514623"), "name" : "Philomena Jones", "species" : "Cat" }
{ "_id" : ObjectId("5f9cfa0883a1e83d7f514624"), "name" : "Pete", "species" : "Piranha" }
{ "_id" : ObjectId("5f9cfa0883a1e83d7f514625"), "name" : "Henry", "species" : "Naked Mole Rat" }
> db.pets.find({}, {_id: true});
{ "_id" : ObjectId("5f9cf97a83a1e83d7f51461e") }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f51461f") }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514620") }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514621") }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514622") }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514623") }
{ "_id" : ObjectId("5f9cfa0883a1e83d7f514624") }
{ "_id" : ObjectId("5f9cfa0883a1e83d7f514625") }
> db.pets.find({name: {$eq:"Mikey"}});
{ "_id" : ObjectId("5f9cf97a83a1e83d7f51461e"), "name" : "Mikey", "species" : "Gerbil" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514621"), "name" : "Mikey", "species" : "Hotdog" }
> db.pets.find({name: {$eq:"Mikey"}, species:{$eq:"Gerbil"}});
{ "_id" : ObjectId("5f9cf97a83a1e83d7f51461e"), "name" : "Mikey", "species" : "Gerbil" }
> db.pets.find({species: /dog/});
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514621"), "name" : "Mikey", "species" : "Hotdog" }
{ "_id" : ObjectId("5f9cf97a83a1e83d7f514622"), "name" : "Terrence", "species" : "Sausagedog" }
>
```

10.) Update

```
> db.customers.find();
{ "_id" : ObjectId("5f9cf3f583a1e83d7f514616"), "first_name" : "Jon", "last_name" : "Doe", "age" : "20", "gender" : "male" }
{ "_id" : ObjectId("5f9cf48083a1e83d7f514617"), "first_name" : "John", "last_name" : "Smith", "age" : "22", "gender" : "male" }
{ "_id" : ObjectId("5f9cf49b83a1e83d7f514618"), "first_name" : "Alicia", "last_name" : "Zelaya", "age" : "25", "gender" : "female" }
{ "_id" : ObjectId("5f9cf4b483a1e83d7f514619"), "first_name" : "Jennifer", "last_name" : "Wallace", "age" : "27", "gender" : "female" }
{ "_id" : ObjectId("5f9cf4cf83a1e83d7f51461a"), "first_name" : "Ahmad", "last_name" : "Jabbar", "age" : "27", "gender" : "male" }
{ "_id" : ObjectId("5f9cf4dd83a1e83d7f51461b"), "first_name" : "James", "last_name" : "Borg", "age" : "27", "gender" : "male" }
{ "_id" : ObjectId("5f9cf65c83a1e83d7f51461c"), "first_name" : "Sam", "last_name" : "Smith", "gender" : "male", "age" : "32" }
{ "_id" : ObjectId("5f9cf65c83a1e83d7f51461d"), "first_name" : "Jade", "last_name" : "Smith", "gender" : "female" }
>
```

```
> db.customers.update({first_name: "Jennifer"}, {$set: {gender: "female", age: "27"}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.customers.update({first_name: "Ahmad"}, {$set: {gender: "male", age: "27"}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.customers.update({first_name: "James"}, {$set: {gender: "male", age: "27"}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.customers.update({first_name: "Sam"}, {$set: {gender: "male", age: "32"}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

12.) Import

```
C:\mongodb\bin>mongoimport.exe --db stocks --collection stocks --file stocks.json
2020-10-31T02:36:19.216-0400    connected to: mongodb://localhost/
2020-10-31T02:36:19.389-0400    Failed: error processing document #1901: unexpected EOF
2020-10-31T02:36:19.389-0400    1000 document(s) imported successfully. 0 document(s) failed to import
```