MongoDB Cheat Sheet

1. In order to get the server up an running without having the window open.

sudo mongod -f /Users/giovani/Documents/Development/MongoDB/sandbox/db/mongod.conf –fork

storage:  
 dbPath: *'*/Users/giovani/Documents/Development/MongoDB/sandbox/db*'*systemLog:  
 destination: file  
 path: *'*/Users/giovani/Documents/Development/MongoDB/sandbox/logs/log.log*'*

1. This is how to use an or operator.

db.movieStarts.find({$or: [{genre: 'drama'},{genre: 'action'}]}).pretty()

1. Find if one variable is greater than the other.

db.movieStarts.find({$expr:{$gt:['$visitors','$expectedVisitors']}}).pretty()

1. To import a database

mongoimport movieData.json -d boxoffice -c movieStarts --jsonArray --drop

Arrays

1. To find these and more items in an array with ALL

db.movieStarts.find({genre: {$all: ['action','thriller']}}).pretty()

1. To Match values of elements in an array use $elemMatch

db.users.find({hobbies: {$elemMatch: {title: 'Sports', frequency: 2}}}).pretty()

1. Using $slice to get number of elements or to skip some elements.

db.movies.find({'rating.average':{$gt:9}}, {genres: {$slice: [1,2]}, name: 1}).pretty()

Updates

1. Increment by an interval with update and combine with $set.

db.users.updateOne({name:'Manuel'},{$inc: {age: 2}, $set: {sex: 'M'}})

1. Update to a certain value but only if another value is higher and not if its lower using $min the opposite with $max. $Mul is to multiply a field.

db.users.updateOne({name: 'Chris'}, {$min: {age: 35}})

1. $unset allows to get rid of a field.

db.users.updateMany({isSporty: true}, {$unset: {phone: ''}})

1. To rename a field use $rename

db.users.updateMany({isSporty: true},{$rename: {age: 'totalAge'}})

1. If it exists update, otherwise insert

db.sports.updateOne({title:'Football'}, {$set: {requiresTeam: true}}, {upsert:true})

1. Add a field to a specific element in an array.

db.users.updateMany({hobbies: {$elemMatch: {title: 'Sports', frequency: {$gte:3}}}}, {$set: {'hobbies.$.highFrequency':true}})

1. Update all embedded documents in an array

Db.users.updateMany({totalAge: {$gt: 30}},{$inc: {‘hobbies.$[].frequency: -1’}})

1. Specifying array filters.

db.users.updateMany({'hobbies.frequency': {$gt: 2}}, {$set: {'hobbies.$[el].goodFrequency': true}}, {arrayFilters: [{'el.frequency': {$gt: 2}}]})

1. Push an item into an existing array.

db.users.updateOne({name: 'Maria'}, {$push: {hobbies: {title: 'Sports', frequency: 2}}})

* Add an array of multiple documents

db.users.updateOne({name: 'Maria'}, {$push: {hobbies: {$each: [{title: 'Sports', frequency: 2}], $sort: {frequency: -1}}}})

* Delete element of an array.

db.users.updateOne({name: 'Maria'}, {$pull: {hobbies: {title: 'Hiking'}}})

* Delete last element.

Db.users.updateOne({name: ‘Chris’}, {$pop: {hobbies: 1}})

* Can’t add duplicates into the array.

db.users.updateOne({name: 'Maria'}, {$addToSet: {hobbies: {$each: [{title: 'Sports', frequency: 2}], $sort: {frequency: -1}}}})

Delete

* Check if a field exists.

Db.users.deleteMany({totalAge: {$exists: false}, isSporty: true})

* Delete the collection

Db.users.drop()