ASSIGNMENT 1

> use mongo\_practice

switched to db mongo\_practice

> show dbs

admin 0.000GB

config 0.000GB

local 0.000GB

> db.createCollection("movies")

{ "ok" : 1 }

> db.movies.insertMany( [ { title:"Fight Club", "writer":"Chuck Palahniuko", "year":"1999", "actors":[ "Brad Pitt", "Edward Norton"]},

{ title:"Pulp Fiction", "writer":"Quentin Tarantio", "year":"1994", "actors":[ "John Travolta", "Uma Thurman"]},

{ title:"Inglorious Basterds" , "writer":"Quentin Tarantio", "year":"2009", "actors":[ "Brad Pitt", "Diane Kruger", "Eli Roth"]},

{title: "The Hobbit: An Unexpected Journey", "writer":"J.R.R. Tolkein", "year":"2012", "franchise": "The Hobbit"},

{ title:"The Hobbit:The Desolation of Smaug", "writer":"J.R.R. Tolkein", "year": "2013", "franchise": "The Hobbit"},

{title:"The Hobbit: The Battle of the Five Armies", "writer":"J.R.R. Tolkein", "year":"2012", "franchise": "The Hobbit", "synopsis": "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness."},

{title:"Pee Wee Herman's Big Adventure"},

{title:"Avatar"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("61e6d019fd1acbe7269e99d2"),

ObjectId("61e6d019fd1acbe7269e99d3"),

ObjectId("61e6d019fd1acbe7269e99d4"),

ObjectId("61e6d019fd1acbe7269e99d5"),

ObjectId("61e6d019fd1acbe7269e99d6"),

ObjectId("61e6d019fd1acbe7269e99d7"),

ObjectId("61e6d019fd1acbe7269e99d8"),

ObjectId("61e6d019fd1acbe7269e99d9")

]

}

> db.movies.find().pretty()

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d2"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : "1999",

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d3"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantio",

"year" : "1994",

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d4"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantio",

"year" : "2009",

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d5"),

"title" : "The Hobbit: An Unexpected Journey",

"writer" : "J.R.R. Tolkein",

"year" : "2012",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d6"),

"title" : "The Hobbit:The Desolation of Smaug",

"writer" : "J.R.R. Tolkein",

"year" : "2013",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d7"),

"title" : "The Hobbit: The Battle of the Five Armies",

"writer" : "J.R.R. Tolkein",

"year" : "2012",

"franchise" : "The Hobbit",

"synopsis" : "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness."

}

{

"\_id" : ObjectId("61e6d019fd1acbe7269e99d8"),

"title" : "Pee Wee Herman's Big Adventure"

}

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d9"), "title" : "Avatar" }

> db.movies.find({writer:"Quentin Tarantio"})

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d3"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantio", "year" : "1994", "actors" : [ "John Travolta", "Uma Thurman" ] }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d4"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantio", "year" : "2009", "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

> db.movies.find({actors:"Brad Pitt"})

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d2"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : "1999", "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d4"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantio", "year" : "2009", "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

> db.movies.find({franchise:"The Hobbit"})

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d5"), "title" : "The Hobbit: An Unexpected Journey", "writer" : "J.R.R. Tolkein", "year" : "2012", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d6"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d7"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : "2012", "franchise" : "The Hobbit", "synopsis" : "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness." }

> db.movies.find({$and:[{"year":{$gt:"1900"}},{"year":{$lt:"2000"}}]})

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d2"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : "1999", "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d3"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantio", "year" : "1994", "actors" : [ "John Travolta", "Uma Thurman" ] }

> db.movies.find({$or:[{"year":{$lt:"2000"}},{"year":{$gt:"2010"}}]})

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d2"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : "1999", "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d3"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantio", "year" : "1994", "actors" : [ "John Travolta", "Uma Thurman" ] }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d5"), "title" : "The Hobbit: An Unexpected Journey", "writer" : "J.R.R. Tolkein", "year" : "2012", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d6"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("61e6d019fd1acbe7269e99d7"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : "2012", "franchise" : "The Hobbit", "synopsis" : "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness." }

* db.movies.update({title: "The Hobbit: An Unexpected Journey"}, {synopsis: "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group of dwarves to reclaim their mountain home - and the gold within it - from the dragon Smaug."})
* db.movies.update({title: "The Hobbit: The Desolation of Smaug"}, {synopsis: "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."})
* db.movies.update({title: "Pulp Fiction"}, {$push: {actors: "Samuel L. Jackson"}})
* db.movies.find({$text: {$search: "Bilbo"}})
* db.movies.find({$text: {$search: "Gandalf"}})
* db.movies.find({$text: {$search: "Bilbo -Gandalf"}})
* db.movies.find({$text: {$search: ”dwarves hobbit"}})
* db.movies.find({$text: {$search: "\”gold”\” dragon"}})
* b.movies.remove({title: "Pee Wee Herman's Big Adventure"})
* db.movies.remove({title: "Avatar"})
* db.users.find()
* db.posts.find()
* db.posts.find({username: "GoodGuyGreg"})
* db.posts.find({username: "ScumbagSteve"})
* db.comments.find()
* db.comments.find({username: "GoodGuyGreg"})
* db.comments.find({username: "ScumbagSteve"})

ASSIGNMENT 2

* db.zipcodes.aggregate([{$match:{$and:{city:”ATLANTA”,state:”GA”}}}])
* db.zipcodes.aggregate([{$match:{city:”ATLANTA”}},{$group:{\_id:”$city”,count:{$count:{}}}}])
* db.zipcodes.aggregate([{$match:{city:”ATLANTA”}},{$group:{\_id:”$city”,Totalpop:{$sum”$pop”}}}])
* db.zipcodes.aggregate([{$group:{\_id:”$state”,Totalpop:{$sum:”$pop”}}}])
* db.zipcodes.aggregate([{$sort:{pop:-1}},{$limit:3}])
* db.zipcodes.aggregate([{$group:{\_id:{city:”$city”,state:”$state”},Totalpop:{$sum:”$pop”}}},{$sort:{Totalpop:-1}}])
* db.zipcodes.aggregate([{$group:{\_id:{city:”$city”,state:”$state”},Totalpop:{$sum:”$pop”}}},{$sort:{Totalpop:-1}},{$limit:3}])
* db.zipcodes.aggregate([{$group:{\_id:city:”$city”,$sort:{pop:-1}}}{$limit:3}])
* db.zipcodes.aggregate([{$group:{\_id:{city:”$city”,state:”$state”},Totalpop:{$sum”$pop”}}},{$group:{\_id:”$\_id.city”,Averagecitypop:{$avg:”$Totalpop”}}}])
* db.zipcodes.aggregate([{$group:{\_id:{city:”$city”,state:”$state”},Totalpop:{$sum”$pop”}}},{$group:{\_id:”$\_id.city”,Averagecitypop:{$avg:”$Totalpop”}}},{$limit:3}])

ASSIGNMENT 3

* show dbs
* use restaurants
* db.addresses.find()
* db.addresses.aggregate([{$group:{\_id:{restaurant\_id:”$restaurants\_id”,name:”$name”,borough:”$borough”,cuisine:”$cuisine”]}}])
* db.addresses.find({borough:”Bronx”}).limit(5)
* db.addresses.find({borough:”Bronx”}).skip(5).limit(5)
* db.addresses.find({grades:{$elemMatch::{“score”:{$gt:90}}}})
* db.addresses.find({grades:{$elemMatch::{“score”:{$gt:80,$lt:100}}}})
* db.addresses.find({“address.coord”:{$lt:-95.754168}})
* db.addresses.find({$and:[{“cuisine”:{$ne:”American”}}{“grades.score”:{$gt:70}},{“address.coord”:{$lt:-65.754168}}])
* db.addresses.find({$and:[{“cuisine”:{$ne:”American”}},{“grades.score”:”A”},{“borough”:”Brooklyn”}}]})
* db.addresses.aggregate([{$match:{name:”/^Wil/”}},{$group:{\_id:{restaurant\_id:”$restaurant\_id”,name:”$name”,borough:”$borough”,cuisine:”$cuisine”}}}])
* db.addresses.aggregate([{$match:{name:”/ces$/”}},{$group:{\_id:{restaurant\_id:”$restaurant\_id”,name:”$name”,borough:”$borough”,cuisine:”$cuisine”}}}])
* db.addresses.aggregate([{$match:{name:”/.\*Reg.\*/”}},{$group:{\_id:{restaurant\_id:”$restaurant\_id”,name:”$name”,borough:”$borough”,cuisine:”$cuisine”}}}])
* db.addresses.find.({“borough”:{$nin:[“Staten Island”,”Queens”,”Bronx”,”Brooklyn”]}},{“restaurant\_id”:1, “name”:1,”borough”:1,”cuisine”:1})
* db.addresses.aggregate([{$match:{$or:[{cuisine:{$ne:[“American”,”Chinese”]}},{name:/^Wil/}}},{$group:{\_id:{restaurant\_id:”$restaurant\_id”,name:”$name”,borough:”$borough”,cuisine:”$cuisine”}}}])
* db.addresses.find({“grades.date”:ISODate(“2014-08-11T00:00:00Z”),”grades.grade”:”A”,”grades.score”:11},{“restaurant\_id”:1,”name”:1,”grades”:1})
* db.restaurants.find().sort({“name”:1});
* db.restaurants.find().sort({“name”:-1});