**Assignment-1**

**Insert Documents:**

> use mongo\_practice

switched to db mongo\_practice

> 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"]}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634ec0307338f69c67444b44"),

ObjectId("634ec0307338f69c67444b45"),

ObjectId("634ec0307338f69c67444b46")

]

}

> db.movies.insertMany([{"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 rising darkness"}, {"title": "Pee Wee Herman's Big Adventure"}, {"title": "Avatar"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634ec32a7338f69c67444b47"),

ObjectId("634ec32a7338f69c67444b48"),

ObjectId("634ec32a7338f69c67444b49"),

ObjectId("634ec32a7338f69c67444b4a"),

ObjectId("634ec32a7338f69c67444b4b")

]

}

**Find Documents:**

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

{

"\_id" : ObjectId("634ec0307338f69c67444b44"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : 1999,

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("634ec0307338f69c67444b45"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantio",

"year" : 1994,

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("634ec0307338f69c67444b46"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantio",

"year" : 2009,

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b47"),

"title" : "The Hobbit: An unexpected journey",

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

"year" : 2012,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b48"),

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

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

"year" : 2013,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b49"),

"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 rising darkness"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b4a"),

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

}

{ "\_id" : ObjectId("634ec32a7338f69c67444b4b"), "title" : "Avatar" }

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

{ "\_id" : ObjectId("634ec0307338f69c67444b45"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantio", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }

{ "\_id" : ObjectId("634ec0307338f69c67444b46"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantio", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

> db.movies.find({actors: {$in: ["Brad Pitt"]}}).pretty()

{

"\_id" : ObjectId("634ec0307338f69c67444b44"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : 1999,

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("634ec0307338f69c67444b46"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantio",

"year" : 2009,

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

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

{

"\_id" : ObjectId("634ec32a7338f69c67444b47"),

"title" : "The Hobbit: An unexpected journey",

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

"year" : 2012,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b48"),

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

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

"year" : 2013,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b49"),

"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 rising darkness"

}

> db.movies.find({$and: [{year: {$gte: 1990}}, {year: {$lt:2000}}]}).pretty()

{

"\_id" : ObjectId("634ec0307338f69c67444b44"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : 1999,

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("634ec0307338f69c67444b45"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantio",

"year" : 1994,

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

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

{

"\_id" : ObjectId("634ec0307338f69c67444b44"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : 1999,

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("634ec0307338f69c67444b45"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantio",

"year" : 1994,

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b47"),

"title" : "The Hobbit: An unexpected journey",

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

"year" : 2012,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b48"),

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

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

"year" : 2013,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("634ec32a7338f69c67444b49"),

"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 rising darkness"

}

**Update Documents:**

> db.movies.update({"title": "The Hobbit: An unexpected journey"}, {$set: {"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."}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.movies.update({"title": "The Hobbit: the Desolation of Smaug"}, {$set: {"synopsis": "The dwarves, along with Bilbo baggins and Gandalf the grey, continue their quest to reclaim Emberor, their homeland , from Smaug. Bilbo baggins is in possession of a mysterious and magical ring."}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.movies.update({"title": "Pulp Fiction"}, {$set: {actors: ["John Travolta", "Uma Thurman","Samuel L. Jackson"]}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

**Text Search:**

>db.movies.find({$text: {$search: "Bilbo"}},{title:1})

{ "\_id" : ObjectId("634ec32a7338f69c67444b48"), "title" : "The Hobbit: the Desolation of Smaug" }

{ "\_id" : ObjectId("634ec32a7338f69c67444b49"), "title" : "The Hobbit: the battle of the five Armies" }

{ "\_id" : ObjectId("634ec32a7338f69c67444b47"), "title" : "The Hobbit: An unexpected journey" }

> db.movies.find({$text: {$search: "Gandalf"}},{title:1})

{ "\_id" : ObjectId("634ec32a7338f69c67444b48"), "title" : "The Hobbit: the Desolation of Smaug" }

db.movies.find({$text: {$search: "Bilbo -Gandalf"}},{title:1})

{ "\_id" : ObjectId("634ec32a7338f69c67444b49"), "title" : "The Hobbit: the battle of the five Armies" }

{ "\_id" : ObjectId("634ec32a7338f69c67444b47"), "title" : "The Hobbit: An unexpected journey" }

> db.movies.find({$text: {$search: "\"dwarves\" \"hobbit\""}},{title:1})

{ "\_id" : ObjectId("634ec32a7338f69c67444b47"), "title" : "The Hobbit: An unexpected journey" }

> db.movies.find({$and: [{"synopsis": /gold/},{"synopsis": /dragon/}]})

{ "\_id" : ObjectId("634ec32a7338f69c67444b47"), "title" : "The Hobbit: An unexpected journey", "writer" : "J.R.R.Tolkein", "year" : 2012, "franchise" : "The Hobbit", "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." }

**Delete Documents:**

>db.movies.remove({"title" : "Pee Wee Herman's Big Adventure"})

WriteResult({ "nRemoved" : 1 })

> db.movies.remove({"title" : "Avatar"})

WriteResult({ "nRemoved" : 1 })

**Relationships:**

> db.createCollection("users")

{ "ok" : 1 }

> db.users.insertMany([{"username": "GoodGuyGreg", "first\_name": "Good Guy", "last\_name": "Greg"}, {"username": "ScumbagSteve", "fullname": {"first": "Scumbag", "last":"Steve"}}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634eebd67338f69c67444b4c"),

ObjectId("634eebd67338f69c67444b4d")

]

}

> db.createCollection("posts")

{ "ok" : 1 }

> db.posts.insertMany([{"username": "GoodGuyGreg", "title": "passes out at party", "body": "wakes up early and cleans house"},{"username": "GoodGuyGreg", "title": "steals your identity", "body": "raises your credit score"}, {"username": "GoodGuyGreg", "title": "reports a bug in your code", "body": "sends you a pull request"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634eedb17338f69c67444b4e"),

ObjectId("634eedb17338f69c67444b4f"),

ObjectId("634eedb17338f69c67444b50")

]

}

> db.posts.insertMany([{"username": "ScumbagSteve", "title": "borrows something","body": "sells it"}, {"username": "ScumbagSteve", "title": "borrows everything", "body": "the end"}, {"username": "ScumbagSteve", "title": "forks your repo on github","body": "sets to private"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634eeedc7338f69c67444b51"),

ObjectId("634eeedc7338f69c67444b52"),

ObjectId("634eeedc7338f69c67444b53")

]

}

> db.createCollection("comments")

{ "ok" : 1 }

> db.comments.insertMany([{"username": "GoodGuyGreg", "comment": "hope you got a good deal!", "post": ObjectId("634eeedc7338f69c67444b51")}, {"username": "GoodGuyGreg", "comment": "what's mine is yours!", "post": ObjectId("634eeedc7338f69c67444b52")}, {"username": "GoodGuyGreg", "comment": "Don't violate the licensing agreement", "post": ObjectId("634eeedc7338f69c67444b53")}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634ef1aa7338f69c67444b54"),

ObjectId("634ef1aa7338f69c67444b55"),

ObjectId("634ef1aa7338f69c67444b56")

]

}

> db.comments.insertMany([{"username": "ScumbagSteve", "comment": "it still isn't clean", "post": ObjectId("634eeedc7338f69c67444b4e")}, {"username": "ScumbagSteve", "comment": "denied your pr cause i found a hack", "post": ObjectId("634eeedc7338f69c67444b50")}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("634ef32a7338f69c67444b57"),

ObjectId("634ef32a7338f69c67444b58")

]

}

> db.users.find()

{ "\_id" : ObjectId("634eebd67338f69c67444b4c"), "username" : "GoodGuyGreg", "first\_name" : "Good Guy", "last\_name" : "Greg" }

{ "\_id" : ObjectId("634eebd67338f69c67444b4d"), "username" : "ScumbagSteve", "fullname" : { "first" : "Scumbag", "last" : "Steve" } }

> db.posts.find()

{ "\_id" : ObjectId("634eedb17338f69c67444b4e"), "username" : "GoodGuyGreg", "title" : "passes out at party", "body" : "wakes up early and cleans house" }

{ "\_id" : ObjectId("634eedb17338f69c67444b4f"), "username" : "GoodGuyGreg", "title" : "steals your identity", "body" : "raises your credit score" }

{ "\_id" : ObjectId("634eedb17338f69c67444b50"), "username" : "GoodGuyGreg", "title" : "reports a bug in your code", "body" : "sends you a pull request" }

{ "\_id" : ObjectId("634eeedc7338f69c67444b51"), "username" : "ScumbagSteve", "title" : "borrows something", "body" : "sells it" }

{ "\_id" : ObjectId("634eeedc7338f69c67444b52"), "username" : "ScumbagSteve", "title" : "borrows everything", "body" : "the end" }

{ "\_id" : ObjectId("634eeedc7338f69c67444b53"), "username" : "ScumbagSteve", "title" : "forks your repo on github", "body" : "sets to private" }

> db.posts.find({"username": "GoodGuyGreg"})

{ "\_id" : ObjectId("634eedb17338f69c67444b4e"), "username" : "GoodGuyGreg", "title" : "passes out at party", "body" : "wakes up early and cleans house" }

{ "\_id" : ObjectId("634eedb17338f69c67444b4f"), "username" : "GoodGuyGreg", "title" : "steals your identity", "body" : "raises your credit score" }

{ "\_id" : ObjectId("634eedb17338f69c67444b50"), "username" : "GoodGuyGreg", "title" : "reports a bug in your code", "body" : "sends you a pull request" }

> db.posts.find({"username": "ScumbagSteve"})

{ "\_id" : ObjectId("634eeedc7338f69c67444b51"), "username" : "ScumbagSteve", "title" : "borrows something", "body" : "sells it" }

{ "\_id" : ObjectId("634eeedc7338f69c67444b52"), "username" : "ScumbagSteve", "title" : "borrows everything", "body" : "the end" }

{ "\_id" : ObjectId("634eeedc7338f69c67444b53"), "username" : "ScumbagSteve", "title" : "forks your repo on github", "body" : "sets to private" }

> db.comments.find()

{ "\_id" : ObjectId("634ef1aa7338f69c67444b54"), "username" : "GoodGuyGreg", "comment" : "hope you got a good deal!", "post" : ObjectId("634eeedc7338f69c67444b51") }

{ "\_id" : ObjectId("634ef1aa7338f69c67444b55"), "username" : "GoodGuyGreg", "comment" : "what's mine is yours!", "post" : ObjectId("634eeedc7338f69c67444b52") }

{ "\_id" : ObjectId("634ef1aa7338f69c67444b56"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement", "post" : ObjectId("634eeedc7338f69c67444b53") }

{ "\_id" : ObjectId("634ef32a7338f69c67444b57"), "username" : "ScumbagSteve", "comment" : "it still isn't clean", "post" : ObjectId("634eeedc7338f69c67444b4e") }

{ "\_id" : ObjectId("634ef32a7338f69c67444b58"), "username" : "ScumbagSteve", "comment" : "denied your pr cause i found a hack", "post" : ObjectId("634eeedc7338f69c67444b50") }

> db.comments.find({"username": "GoodGuyGreg"})

{ "\_id" : ObjectId("634ef1aa7338f69c67444b54"), "username" : "GoodGuyGreg", "comment" : "hope you got a good deal!", "post" : ObjectId("634eeedc7338f69c67444b51") }

{ "\_id" : ObjectId("634ef1aa7338f69c67444b55"), "username" : "GoodGuyGreg", "comment" : "what's mine is yours!", "post" : ObjectId("634eeedc7338f69c67444b52") }

{ "\_id" : ObjectId("634ef1aa7338f69c67444b56"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement", "post" : ObjectId("634eeedc7338f69c67444b53") }

> db.comments.find({"username": "ScumbagSteve"})

{ "\_id" : ObjectId("634ef32a7338f69c67444b57"), "username" : "ScumbagSteve", "comment" : "it still isn't clean", "post" : ObjectId("634eeedc7338f69c67444b4e") }

{ "\_id" : ObjectId("634ef32a7338f69c67444b58"), "username" : "ScumbagSteve", "comment" : "denied your pr cause i found a hack", "post" : ObjectId("634eeedc7338f69c67444b50") }

> db.comments.find({"post": ObjectId("634eeedc7338f69c67444b50")})

{ "\_id" : ObjectId("634ef32a7338f69c67444b58"), "username" : "ScumbagSteve", "comment" : "denied your pr cause i found a hack", "post" : ObjectId("634eeedc7338f69c67444b50") }