Query/Find Documents

1.

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

{

"\_id" : ObjectId("60e056240b966e2d515615d9"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : "1999",

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("60e056240b966e2d515615da"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantino",

"year" : "1994",

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("60e05df20b966e2d515615e7"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantino",

"year" : "2009",

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

{

"\_id" : ObjectId("60e05df20b966e2d515615e8"),

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

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

"year" : "2012",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("60e05df20b966e2d515615e9"),

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

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

"year" : "2013",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("60e072850b966e2d515615ed"),

"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 hamds of a rising darkness."

}

{

"\_id" : ObjectId("60e072850b966e2d515615ee"),

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

}

{ "\_id" : ObjectId("60e072850b966e2d515615ef"), "title" : "Avatar" }

2.

MongoDB Enterprise > db.movies.find ({writer: "Quentin Tarantino"})

{ "\_id" : ObjectId("60e056240b966e2d515615da"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : "1994", "actors" : [ "John Travolta", "Uma Thurman" ] }

{ "\_id" : ObjectId("60e05df20b966e2d515615e7"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : "2009", "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

3.

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

{ "\_id" : ObjectId("60e056240b966e2d515615d9"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : "1999", "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("60e05df20b966e2d515615e7"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : "2009", "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

4.

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

{ "\_id" : ObjectId("60e05df20b966e2d515615e8"), "title" : "The Hobbit: An Unexpected Journey", "writer" : "J.R.R. Tolkein", "year" : "2012", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("60e05df20b966e2d515615e9"), "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("60e072850b966e2d515615ed"), "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 hamds of a rising darkness." }

5.

MongoDB Enterprise > db.movies.find({$and: [{"year":{$gte: 1990}}, {"year":{$lte: 1999}}]})

MongoDB Enterprise > db.movies.find({$and: [{"year":{$gte: '1990'}}, {"year":{$lte: '1999'}}]})

{ "\_id" : ObjectId("60e056240b966e2d515615d9"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : "1999", "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("60e056240b966e2d515615da"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : "1994", "actors" : [ "John Travolta", "Uma Thurman" ] }

6.

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

{ "\_id" : ObjectId("60e056240b966e2d515615d9"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : "1999", "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("60e056240b966e2d515615da"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : "1994", "actors" : [ "John Travolta", "Uma Thurman" ] }

{ "\_id" : ObjectId("60e05df20b966e2d515615e8"), "title" : "The Hobbit: An Unexpected Journey", "writer" : "J.R.R. Tolkein", "year" : "2012", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("60e05df20b966e2d515615e9"), "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("60e072850b966e2d515615ed"), "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 hamds of a rising darkness." }

Update Documents:

1.

MongoDB Enterprise > 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 Smaung."}})

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

2.

MongoDB Enterprise > 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 Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."}})

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

3.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.movies.update({"title": "Pulp Fiction"}, {$set: {"actors": [

... "John Tarantino",

... ... "Uma Thurman",

... ... "Samuel L. Jackson"

... ]}})

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

Text Search:

1.

MongoDB Enterprise > db.movies.createIndex({synopsis: "text"})

{

"createdCollectionAutomatically" : false,

"numIndexesBefore" : 1,

"numIndexesAfter" : 2,

"commitQuorum" : "votingMembers",

"ok" : 1,

"$clusterTime" : {

"clusterTime" : Timestamp(1625337809, 7),

"signature" : {

"hash" : BinData(0,"MU455uWBjMrVkMEGN1PgdXRcEWw="),

"keyId" : NumberLong("6927408083782074369")

}

},

"operationTime" : Timestamp(1625337809, 7)

}

MongoDB Enterprise > db.movies.find({$text: {$search: "Bilbo"}})

{ "\_id" : ObjectId("60e05df20b966e2d515615e9"), "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit", "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." }

{ "\_id" : ObjectId("60e072850b966e2d515615ed"), "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 hamds of a rising darkness." }

{ "\_id" : ObjectId("60e05df20b966e2d515615e8"), "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 Smaung." }

2.

MongoDB Enterprise > db.movies.find({$text: {$search: "Gandalf"}})

{ "\_id" : ObjectId("60e05df20b966e2d515615e9"), "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit", "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." }

3.

MongoDB Enterprise > db.movies.find({$text: {$search: "Bilbo -Gandalf"}})

{ "\_id" : ObjectId("60e072850b966e2d515615ed"), "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 hamds of a rising darkness." }

{ "\_id" : ObjectId("60e05df20b966e2d515615e8"), "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 Smaung." }

4.

MongoDB Enterprise > db.movies.find({$text: {$search: "dwarves hobbit"}})

{ "\_id" : ObjectId("60e05df20b966e2d515615e8"), "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 Smaung." }

{ "\_id" : ObjectId("60e05df20b966e2d515615e9"), "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : "2013", "franchise" : "The Hobbit", "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." }

5.

MongoDB Enterprise > db.movies.find({$text: {$search: "gold and dragon"}})

{ "\_id" : ObjectId("60e05df20b966e2d515615e8"), "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 Smaung." }

Delete Documents:

1.

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

WriteResult({ "nRemoved" : 1 })

2.

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

WriteResult({ "nRemoved" : 1 })

Relationships:

1.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.users.find()

{ "\_id" : ObjectId("60e182894c2e7d865f5ac271"), "username" : "GoodGuyGreg", "first\_name" : "Good Guy", "last\_name" : "Greg" }

{ "\_id" : ObjectId("60e182894c2e7d865f5ac272"), "username" : "ScumbagSteve", "full\_name" : { "first" : "Scumbag", "last" : "Steve" } }

2.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.users.find()

{ "\_id" : ObjectId("60e182894c2e7d865f5ac271"), "username" : "GoodGuyGreg", "first\_name" : "Good Guy", "last\_name" : "Greg" }

{ "\_id" : ObjectId("60e182894c2e7d865f5ac272"), "username" : "ScumbagSteve", "full\_name" : { "first" : "Scumbag", "last" : "Steve" } }

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.posts.find()

{ "\_id" : ObjectId("60e187594c2e7d865f5ac273"), "username" : "GoodGuyGreg", "title" : "Passes out at party", "body" : "Wakes up early and cleans house" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac274"), "username" : "GoodGuyGreg", "title" : "Steals your identity", "body" : "Raises your credit score" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac275"), "username" : "GoodGuyGreg", "title" : "Reports a bug in your code", "body" : "Sends you a Pull Request" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac276"), "username" : "ScumbagSteve", "title" : "Borrows something", "body" : "Sells it" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac277"), "username" : "ScumbagSteve", "title" : "Borrows everything", "body" : "The end" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac278"), "username" : "ScumbagSteve", "title" : "Forks your repo on github", "body" : "Sets to private" }

3.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.posts.find({"username": "GoodGuyGreg"})

{ "\_id" : ObjectId("60e187594c2e7d865f5ac273"), "username" : "GoodGuyGreg", "title" : "Passes out at party", "body" : "Wakes up early and cleans house" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac274"), "username" : "GoodGuyGreg", "title" : "Steals your identity", "body" : "Raises your credit score" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac275"), "username" : "GoodGuyGreg", "title" : "Reports a bug in your code", "body" : "Sends you a Pull Request" }

4.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.posts.find({ "username": "ScumbagSteve"})

{ "\_id" : ObjectId("60e187594c2e7d865f5ac276"), "username" : "ScumbagSteve", "title" : "Borrows something", "body" : "Sells it" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac277"), "username" : "ScumbagSteve", "title" : "Borrows everything", "body" : "The end" }

{ "\_id" : ObjectId("60e187594c2e7d865f5ac278"), "username" : "ScumbagSteve", "title" : "Forks your repo on github", "body" : "Sets to private" }

5.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.comments.find()

{ "\_id" : ObjectId("60e18a694c2e7d865f5ac279"), "username" : "GoodGuyGreg", "comment" : "Hope you got a good deal!", "post" : ObjectId("60e187594c2e7d865f5ac276") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac27e"), "username" : "GoodGuyGreg", "comment" : "What's mine is yours!", "post" : ObjectId("60e187594c2e7d865f5ac277") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac27f"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement!", "post" : ObjectId("60e187594c2e7d865f5ac278") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac280"), "username" : "ScumbagSteve", "comment" : "It still isn't clean", "post" : ObjectId("60e187594c2e7d865f5ac273") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac281"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : ObjectId("60e187594c2e7d865f5ac275") }

6.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.comments.find({"username": "GoodGuyGreg"})

{ "\_id" : ObjectId("60e18a694c2e7d865f5ac279"), "username" : "GoodGuyGreg", "comment" : "Hope you got a good deal!", "post" : ObjectId("60e187594c2e7d865f5ac276") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac27e"), "username" : "GoodGuyGreg", "comment" : "What's mine is yours!", "post" : ObjectId("60e187594c2e7d865f5ac277") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac27f"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement!", "post" : ObjectId("60e187594c2e7d865f5ac278") }

7.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.comments.find({"username": "ScumbagSteve"})

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac280"), "username" : "ScumbagSteve", "comment" : "It still isn't clean", "post" : ObjectId("60e187594c2e7d865f5ac273") }

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac281"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : ObjectId("60e187594c2e7d865f5ac275") }

8.

MongoDB Enterprise atlas-11jrht-shard-0:PRIMARY> db.comments.find({ "post": ObjectId("60e187594c2e7d865f5ac275")})

{ "\_id" : ObjectId("60e18ee64c2e7d865f5ac281"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : ObjectId("60e187594c2e7d865f5ac275") }