MongoDB- Assignment 1

Q1. Find all docs

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find().pretty()

{

"\_id" : ObjectId("60def87db4eda48714f74d6f"),

"title" : "Fight Club",

"writer" : "Chauk Palahniuko",

"year" : 1999,

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{ "\_id" : ObjectId("60deff9cb4eda48714f74d70") }

{

"\_id" : ObjectId("60df04c06565069739118251"),

"title" : "Pee Wee hermans Big Adventure"

}

{ "\_id" : ObjectId("60df050d6565069739118252"), "title" : "Avatar" }

{

"\_id" : ObjectId("60df05fb6565069739118253"),

"title" : "Pulp Fiction",

"writer" : "Quientin Tarantino",

"year" : 1994,

"actors" : [

"John Travolta",

"Uma Thuraman"

]

}

{

"\_id" : ObjectId("60df064e6565069739118254"),

"title" : "Inglorious Basterds",

"writer" : "Quientin Tarantino",

"year" : 2009,

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

{

"\_id" : ObjectId("60df06746565069739118255"),

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

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

"year" : 2012,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("60df06906565069739118256"),

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

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

"year" : 2013,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("60df07286565069739118257"),

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

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

"year" : 2012,

"franchise" : "The Hobbit",

"synopsis" : "Bilblo 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"

}

Q.2. With 'writer':'Quientin Tarantino

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({'writer':'Quientin Tarantino'})

{ "\_id" : ObjectId("60df05fb6565069739118253"), "title" : "Pulp Fiction", "writer" : "Quientin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thuraman" ] }

{ "\_id" : ObjectId("60df064e6565069739118254"), "title" : "Inglorious Basterds", "writer" : "Quientin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

Q.3 with actor brad pitt

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({'actors':'Brad Pitt'})

{ "\_id" : ObjectId("60def87db4eda48714f74d6f"), "title" : "Fight Club", "writer" : "Chauk Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("60df064e6565069739118254"), "title" : "Inglorious Basterds", "writer" : "Quientin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

Q.4

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({'franchise':'The Hobbit'}).pretty()

{

"\_id" : ObjectId("60df06746565069739118255"),

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

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

"year" : 2012,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("60df06906565069739118256"),

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

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

"year" : 2013,

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("60df07286565069739118257"),

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

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

"year" : 2012,

"franchise" : "The Hobbit",

"synopsis" : "Bilblo 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"

}

Q.5

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({'year':{$gte:1990,$lte:1999}})

{ "\_id" : ObjectId("60def87db4eda48714f74d6f"), "title" : "Fight Club", "writer" : "Chauk Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("60df05fb6565069739118253"), "title" : "Pulp Fiction", "writer" : "Quientin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thuraman" ] }

Q.6

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({$or:[{year:{$lt:2000}},{year:{$gt:2010}}]})

{ "\_id" : ObjectId("60def87db4eda48714f74d6f"), "title" : "Fight Club", "writer" : "Chauk Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }

{ "\_id" : ObjectId("60df05fb6565069739118253"), "title" : "Pulp Fiction", "writer" : "Quientin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thuraman" ] }

{ "\_id" : ObjectId("60df06746565069739118255"), "title" : "The Hobbit: An Unexpected Journey", "writer" : "J.R.R. Tolkein", "year" : 2012, "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("60df06906565069739118256"), "title" : "The Hobbit: The Desolation of Smung", "writer" : "J.R.R. Tolkein", "year" : 2013, "franchise" : "The Hobbit" }

{ "\_id" : ObjectId("60df07286565069739118257"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : 2012, "franchise" : "The Hobbit", "synopsis" : "Bilblo 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("60df07ed6565069739118258"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : 2012, "franchise" : "The Hobbit", "synopsis" : "Bilblo 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" }

**Update documents**

q.1

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.update({'title':'The Hobbit: An Unexpected Journey'},{'synopsis':'A reluctant hobbit, biblo baggins,sets out to the lonely moutain with aspirited group of dwarves to reclaim their moutain home-and the gold within it-from the dragon smaug,'})

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

q.2

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({'title' : 'The Hobbit: The Desolation of Smung'})

{ "\_id" : ObjectId("60df06906565069739118256"), "title" : "The Hobbit: The Desolation of Smung", "writer" : "J.R.R. Tolkein", "year" : 2013, "franchise" : "The Hobbit" }

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.update({'title' : 'The Hobbit: The Desolation of Smung'},{'synopsis':'the dwarves, along with Biblo Baggins Gandalf the Gray, continue thier quest to reclaim Erebor,their homland , from Smaug.Biblo Baggins is in possession of a mysterious and magical rings'})

Q3

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.update({'title':'Pulp Fiction'},{$push:{'actors':'Samuel L. Jackson '}})

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

**TEXT SEARCH**

Q1

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({$text:{$search:'Biblo'}})

{ "\_id" : ObjectId("60df06906565069739118256"), "synopsis" : "the dwarves, along with Biblo Baggins Gandalf the Gray, continue thier quest to reclaim Erebor,their homland , from Smaug.Biblo Baggins is in possession of a mysterious and magical rings" }

{ "\_id" : ObjectId("60df06746565069739118255"), "synopsis" : "A reluctant hobbit, biblo baggins,sets out to the lonely moutain with aspirited group of dwarves to reclaim their moutain home-and the gold within it-from the dragon smaug," }

Q2

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({$text:{$search:'Gandalf'}})

{ "\_id" : ObjectId("60df06906565069739118256"), "synopsis" : "the dwarves, along with Biblo Baggins Gandalf the Gray, continue thier quest to reclaim Erebor,their homland , from Smaug.Biblo Baggins is in possession of a mysterious and magical rings" }

Q3

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({$text:{$search:'Bilbo-Gandalf'}})

{ "\_id" : ObjectId("60df06906565069739118256"), "synopsis" : "the dwarves, along with Biblo Baggins Gandalf the Gray, continue thier quest to reclaim Erebor,their homland , from Smaug.Biblo Baggins is in possession of a mysterious and magical rings" }

Q4

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({$text:{$search:'dwarves hobbit'}})

{ "\_id" : ObjectId("60df06746565069739118255"), "synopsis" : "A reluctant hobbit, biblo baggins,sets out to the lonely moutain with aspirited group of dwarves to reclaim their moutain home-and the gold within it-from the dragon smaug," }

{ "\_id" : ObjectId("60df06906565069739118256"), "synopsis" : "the dwarves, along with Biblo Baggins Gandalf the Gray, continue thier quest to reclaim Erebor,their homland , from Smaug.Biblo Baggins is in possession of a mysterious and magical rings" }

{ "\_id" : ObjectId("60df07ed6565069739118258"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : 2012, "franchise" : "The Hobbit", "synopsis" : "Bilblo 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("60df07286565069739118257"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : 2012, "franchise" : "The Hobbit", "synopsis" : "Bilblo 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" }

Q5

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.find({$text:{$search:'gold dragon'}})

{ "\_id" : ObjectId("60df06746565069739118255"), "synopsis" : "A reluctant hobbit, biblo baggins,sets out to the lonely moutain with aspirited group of dwarves to reclaim their moutain home-and the gold within it-from the dragon smaug," }

Delete Documents

Q1

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.remove({'title':'Avatar'})

WriteResult({ "nRemoved" : 1 })

Q2

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.movies.remove({'title':'Avatar'})

WriteResult({ "nRemoved" : 1 })

Query Related to Collection

Q1.

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.users.find().pretty()

{

"\_id" : ObjectId("60e00b97c6b139b86f890a95"),

"username" : "GoodGuyGray",

"first\_name" : "Good Guy",

"last\_name" : "Greg"

}

{

"\_id" : ObjectId("60e00befc6b139b86f890a96"),

"username" : "ScumbagSteve",

"first\_name" : "Scumbag",

"last\_name" : "Steve"

}

Q2.

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.posts.find().pretty()

{

"\_id" : ObjectId("60e00c7fc6b139b86f890a97"),

"username" : "GoodGuyGreg",

"title" : "Passes out at party",

"body" : "Wakes up early and cleans house"

}

{

"\_id" : ObjectId("60e00d20c6b139b86f890a98"),

"username" : "GoodGuyGreg",

"title" : "Steals your identity",

"body" : "Raises your credit score"

}

{

"\_id" : ObjectId("60e00d7cc6b139b86f890a99"),

"username" : "GoodGuyGreg",

"title" : "Reports a bug in your code",

"body" : "Sends you a pull request"

}

{

"\_id" : ObjectId("60e00db7c6b139b86f890a9a"),

"username" : "Scumbagsteve",

"title" : "Borrows something",

"body" : "Sells it"

}

{

"\_id" : ObjectId("60e00ddac6b139b86f890a9b"),

"username" : "Scumbagsteve",

"title" : "Borrows everything",

"body" : "The end"

}

{

"\_id" : ObjectId("60e00f22c6b139b86f890a9c"),

"username" : "Scumbagsteve",

"title" : "Forks your repo on github",

"body" : "Sets to private"

}

Q3.

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.posts.find({'username':'GoodGuyGreg'})

{ "\_id" : ObjectId("60e00c7fc6b139b86f890a97"), "username" : "GoodGuyGreg", "title" : "Passes out at party", "body" : "Wakes up early and cleans house" }

{ "\_id" : ObjectId("60e00d20c6b139b86f890a98"), "username" : "GoodGuyGreg", "title" : "Steals your identity", "body" : "Raises your credit score" }

{ "\_id" : ObjectId("60e00d7cc6b139b86f890a99"), "username" : "GoodGuyGreg", "title" : "Reports a bug in your code", "body" : "Sends you a pull request" }

Q4

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.posts.find({'username':'Scumbagsteve'})

{ "\_id" : ObjectId("60e00db7c6b139b86f890a9a"), "username" : "Scumbagsteve", "title" : "Borrows something", "body" : "Sells it" }

{ "\_id" : ObjectId("60e00ddac6b139b86f890a9b"), "username" : "Scumbagsteve", "title" : "Borrows everything", "body" : "The end" }

{ "\_id" : ObjectId("60e00f22c6b139b86f890a9c"), "username" : "Scumbagsteve", "title" : "Forks your repo on github", "body" : "Sets to private" }

Q5

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.comments.find().pretty()

{

"\_id" : ObjectId("60e01473c6b139b86f890a9f"),

"username" : "GoodGuyGreg",

"comment" : "Hope you got a good deal!",

"post" : "ObjectId(\"60e00db7c6b139b86f890a9a\")"

}

{

"\_id" : ObjectId("60e01484c6b139b86f890aa0"),

"username" : "GoodGuyGreg",

"comment" : "Whats mine is yours",

"post" : "ObjectId(\"60e00ddac6b139b86f890a9b\")"

}

{

"\_id" : ObjectId("60e01492c6b139b86f890aa1"),

"username" : "GoodGuyGreg",

"comment" : "Dont voilate the licence agreement!",

"post" : "ObjectId(\"60e00f22c6b139b86f890a9c\")"

}

{

"\_id" : ObjectId("60e0149cc6b139b86f890aa2"),

"username" : "Scumbagsteve",

"comment" : "It still isnt clean",

"post" : "ObjectId(\"60e00c7fc6b139b86f890a97\")"

}

{

"\_id" : ObjectId("60e014b3c6b139b86f890aa3"),

"username" : "Scumbagsteve",

"comment" : "Denied your PR because I found a hack",

"post" : "ObjectId(\"60e00d7cc6b139b86f890a99\")"

}

Q6

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.comments.find({'username':'GoodGuyGreg'}).pretty()

{

"\_id" : ObjectId("60e01473c6b139b86f890a9f"),

"username" : "GoodGuyGreg",

"comment" : "Hope you got a good deal!",

"post" : "ObjectId(\"60e00db7c6b139b86f890a9a\")"

}

{

"\_id" : ObjectId("60e01484c6b139b86f890aa0"),

"username" : "GoodGuyGreg",

"comment" : "Whats mine is yours",

"post" : "ObjectId(\"60e00ddac6b139b86f890a9b\")"

}

{

"\_id" : ObjectId("60e01492c6b139b86f890aa1"),

"username" : "GoodGuyGreg",

"comment" : "Dont voilate the licence agreement!",

"post" : "ObjectId(\"60e00f22c6b139b86f890a9c\")"

}

Q7

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.comments.find({'username':'Scumbagsteve'}).pretty()

{

"\_id" : ObjectId("60e0149cc6b139b86f890aa2"),

"username" : "Scumbagsteve",

"comment" : "It still isnt clean",

"post" : "ObjectId(\"60e00c7fc6b139b86f890a97\")"

}

{

"\_id" : ObjectId("60e014b3c6b139b86f890aa3"),

"username" : "Scumbagsteve",

"comment" : "Denied your PR because I found a hack",

"post" : "ObjectId(\"60e00d7cc6b139b86f890a99\")"

}

Q8.

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.comments.find({'post':'ObjectId("60e00d7cc6b139b86f890a99")'}).pretty()

{

"\_id" : ObjectId("60e014b3c6b139b86f890aa3"),

"username" : "Scumbagsteve",

"comment" : "Denied your PR because I found a hack",

"post" : "ObjectId(\"60e00d7cc6b139b86f890a99\")"

}

Q.9

MongoDB Enterprise atlas-fgv9xr-shard-0:PRIMARY> db.comments.find({post:db.posts.findOne({title:'Reports a bug in your code'}).\_id})

{ "\_id" : ObjectId("60e080ee665e142af3467da3"), "username" : "Scumbagsteve", "comment" : "Denied your PR because I found a hack", "post" : ObjectId("60e00d7cc6b139b86f890a99") }