**> show dbs**

admin 0.000GB

config 0.000GB

local 0.000GB

mongo\_practice 0.000GB

**> use mongo\_practice**

switched to db mongo\_practice

**> show collections**

movies

**Query / Find Documents**

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

{

"\_id" : ObjectId("5ffe9bcbd1bd012aec56674f"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : "1999",

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("5ffe9d37d1bd012aec566750"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantino",

"year" : "1994",

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("5ffe9ddcd1bd012aec566751"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantino",

"year" : "2009",

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

{

"\_id" : ObjectId("5ffea05ed1bd012aec566752"),

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

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

"year" : "2012",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("5ffea1bdd1bd012aec566753"),

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

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

"year" : "2013",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("5ffea2afd1bd012aec566754"),

"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 arising darkness."

}

{

"\_id" : ObjectId("5ffea646d1bd012aec566755"),

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

}

{ "\_id" : ObjectId("5ffea652d1bd012aec566756"), "title" : "Avatar" }

1. **> db.movies.find({writer:"Quentin Tarantino"}).pretty()**

{

"\_id" : ObjectId("5ffe9d37d1bd012aec566750"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantino",

"year" : "1994",

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("5ffe9ddcd1bd012aec566751"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantino",

"year" : "2009",

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

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

{

"\_id" : ObjectId("5ffe9bcbd1bd012aec56674f"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : "1999",

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("5ffe9ddcd1bd012aec566751"),

"title" : "Inglorious Basterds",

"writer" : "Quentin Tarantino",

"year" : "2009",

"actors" : [

"Brad Pitt",

"Diane Kruger",

"Eli Roth"

]

}

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

{

"\_id" : ObjectId("5ffea05ed1bd012aec566752"),

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

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

"year" : "2012",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("5ffea1bdd1bd012aec566753"),

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

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

"year" : "2013",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("5ffea2afd1bd012aec566754"),

"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 arising darkness."

}

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

{

"\_id" : ObjectId("5ffe9bcbd1bd012aec56674f"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : "1999",

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("5ffe9d37d1bd012aec566750"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantino",

"year" : "1994",

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

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

{

"\_id" : ObjectId("5ffe9bcbd1bd012aec56674f"),

"title" : "Fight Club",

"writer" : "Chuck Palahniuko",

"year" : "1999",

"actors" : [

"Brad Pitt",

"Edward Norton"

]

}

{

"\_id" : ObjectId("5ffe9d37d1bd012aec566750"),

"title" : "Pulp Fiction",

"writer" : "Quentin Tarantino",

"year" : "1994",

"actors" : [

"John Travolta",

"Uma Thurman"

]

}

{

"\_id" : ObjectId("5ffea05ed1bd012aec566752"),

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

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

"year" : "2012",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("5ffea1bdd1bd012aec566753"),

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

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

"year" : "2013",

"franchise" : "The Hobbit"

}

{

"\_id" : ObjectId("5ffea2afd1bd012aec566754"),

"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 arising darkness."

}

**Update Documents**

1. **> db.movies.updateOne(**

**{"title" : "The Hobbit : An Unexpected Journey"},**

**{$set: {"synposis" : "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited groupof dwarves to reclaim their mountain home -and the gold within it -from the dragon Smaug."}})**

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

1. **> db.movies.updateOne(**

**{"title" : "The Hobbit : The Desolation of Smaug"},**

**{$set: {"synposis" : "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."}})**

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

1. **>db.movies.updateOne({title: "Pulp Fiction"},{$push:{actors:"Samuel L. Jackson"}})**

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

**Text Search**

1. **> db.movies.createIndex({synopsis:"text"})**

{

"createdCollectionAutomatically" : false,

"numIndexesBefore" : 1,

"numIndexesAfter" : 2,

"ok" : 1

}

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

{

"\_id" : ObjectId("5ffed6b7d4867fe9e81bb6ff"),

"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("5ffed745d4867fe9e81bb700"),

"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 arising darkness."

}

{

"\_id" : ObjectId("5ffed696d4867fe9e81bb6fe"),

"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."

}

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

{

"\_id" : ObjectId("5ffed6b7d4867fe9e81bb6ff"),

"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."

}

1. **> db.movies.find({$text:{$search:"Bilbo -Gandalf"}}).pretty()**

{

"\_id" : ObjectId("5ffed745d4867fe9e81bb700"),

"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 arising darkness."

}

{

"\_id" : ObjectId("5ffed696d4867fe9e81bb6fe"),

"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."

}

1. **> db.movies.find({$text:{$search:"dwarves hobbit"}}).pretty()**

{

"\_id" : ObjectId("5ffed696d4867fe9e81bb6fe"),

"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."

}

{

"\_id" : ObjectId("5ffed6b7d4867fe9e81bb6ff"),

"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."

}

1. **> db.movies.find({$text:{$search:"\"gold\" \"dragon\""}}).pretty()**

{

"\_id" : ObjectId("5ffed696d4867fe9e81bb6fe"),

"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 })

**Relationship**

**Querying related collections**

1. **> db.users.find().pretty()**

{

"\_id" : ObjectId("5ffee55ad4867fe9e81bb702"),

"username" : "GoodGuyGreg",

"first\_name" : "GoodGuy",

"last\_name" : "Greg"

}

{

"\_id" : ObjectId("5ffee575d4867fe9e81bb703"),

"username" : "ScumbagSteve",

"full\_name" : {

"first" : "Scumbag",

"last" : "Steve"

}

}

1. **> db.posts.find().pretty()**

{

"\_id" : ObjectId("5ffee60bd4867fe9e81bb704"),

"username" : "GoodGuyGreg",

"title" : "Passes out at party",

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

}

{

"\_id" : ObjectId("5ffee692d4867fe9e81bb705"),

"username" : "GoodGuyGreg",

"title" : "Steals your identity",

"body" : "Raises your credit score"

}

{

"\_id" : ObjectId("5ffee6d8d4867fe9e81bb706"),

"username" : "GoodGuyGreg",

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

"body" : "Sends you a Pull Request"

}

{

"\_id" : ObjectId("5ffee824d4867fe9e81bb707"),

"username" : "ScumbagSteve",

"title" : "Borrows something",

"body" : "Sells it"

}

{

"\_id" : ObjectId("5ffee824d4867fe9e81bb708"),

"username" : "ScumbagSteve",

"title" : "Borrows everything",

"body" : "The end"

}

{

"\_id" : ObjectId("5ffee824d4867fe9e81bb709"),

"username" : "ScumbagSteve",

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

"body" : "Sets to private"

}

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

{

"\_id" : ObjectId("5ffee60bd4867fe9e81bb704"),

"username" : "GoodGuyGreg",

"title" : "Passes out at party",

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

}

{

"\_id" : ObjectId("5ffee692d4867fe9e81bb705"),

"username" : "GoodGuyGreg",

"title" : "Steals your identity",

"body" : "Raises your credit score"

}

{

"\_id" : ObjectId("5ffee6d8d4867fe9e81bb706"),

"username" : "GoodGuyGreg",

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

"body" : "Sends you a Pull Request"

}

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

{

"\_id" : ObjectId("5ffee824d4867fe9e81bb707"),

"username" : "ScumbagSteve",

"title" : "Borrows something",

"body" : "Sells it"

}

{

"\_id" : ObjectId("5ffee824d4867fe9e81bb708"),

"username" : "ScumbagSteve",

"title" : "Borrows everything",

"body" : "The end"

}

{

"\_id" : ObjectId("5ffee824d4867fe9e81bb709"),

"username" : "ScumbagSteve",

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

"body" : "Sets to private"

}

1. **> db.comments.find().pretty()**

{

"\_id" : ObjectId("5ffeebb0d4867fe9e81bb70a"),

"username" : "GoodGuyGreg",

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

"post" : [

"5ffee824d4867fe9e81bb707"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70b"),

"username" : "GoodGuyGreg",

"comment" : "What's mine is yours!",

"post" : [

"5ffee824d4867fe9e81bb708"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70c"),

"username" : "GoodGuyGreg",

"comment" : "Don't violate the licensing agreement!",

"post" : [

"5ffee824d4867fe9e81bb709"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70d"),

"username" : "ScumbagSteve",

"comment" : "It still isn't clean",

"post" : [

"5ffee60bd4867fe9e81bb704"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70e"),

"username" : "ScumbagSteve",

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

"post" : [

"5ffee6d8d4867fe9e81bb706"

]

}

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

{

"\_id" : ObjectId("5ffeebb0d4867fe9e81bb70a"),

"username" : "GoodGuyGreg",

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

"post" : [

"5ffee824d4867fe9e81bb707"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70b"),

"username" : "GoodGuyGreg",

"comment" : "What's mine is yours!",

"post" : [

"5ffee824d4867fe9e81bb708"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70c"),

"username" : "GoodGuyGreg",

"comment" : "Don't violate the licensing agreement!",

"post" : [

"5ffee824d4867fe9e81bb709"

]

}

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

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70d"),

"username" : "ScumbagSteve",

"comment" : "It still isn't clean",

"post" : [

"5ffee60bd4867fe9e81bb704"

]

}

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70e"),

"username" : "ScumbagSteve",

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

"post" : [

"5ffee6d8d4867fe9e81bb706"

]

}

1. **> db.comments.find({"post":"5ffee6d8d4867fe9e81bb706"}).pretty()**

{

"\_id" : ObjectId("5ffeebf3d4867fe9e81bb70e"),

"username" : "ScumbagSteve",

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

"post" : [

"5ffee6d8d4867fe9e81bb706"

]

}