Camilo Estevan Tacue Salazar ADSO 2556678 TALLER#2 NOSQL

1. CREAR UNA BASE DE DATOS CON EL NOMBRE "DB_MOVIES"

```
> use DB_MOVIES
switched to db DB_MOVIES
```

2. CREAR UNA COLECCIÓN CON EL NOMBRE "MOVIES"

```
> db.createCollection("MOVIES")
{ "ok" : 1 }
```

3. INSERTAR LOS SIGUIENTES DOCUMENTOS: title : Fight Club writer : Chuck Palahniuk year : 1999 sinopsis: Lucha actors : [Brad Pitt Edward Norton] title : Pulp Fiction writer : Quentin Tarantino year : 1994 sinopsis: Lucha actors : [John Travolta Uma Thurman] title : Inglorious Basterds writer : Quentin Tarantino year : 2009 sinopsis: Lucha actors : [Brad Pitt Diane Kruger Eli Roth] title : The Hobbit: An Unexpected Journey writer : J.R.R. Tolkein year : 2012 sinopsis: Lucha franchise : The Hobbit title : The Hobbit: The Desolation of Smaug writer : J.R.R. Tolkein year : 2013 sinopsis: Lucha franchise : The Hobbit title : The Hobbit: The Battle of the Five Armies writer : J.R.R. Tolkein Ejercicio 2 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.insertMany([
...    {
...       "title": "Fight Club",
...       "writer": "Chuck Palahniuk",
...       "year": 1999,
...       "sinopsis": "Lucha",
...       "actors": ["Brad Pitt", "Edward Norton"]
...    },
...    {
...       "title": "Pulp Fiction",
...       "writer": "Quentin Tarantino",
...       "year": 1994,
...       "sinopsis": "Lucha",
...       "actors": ["John Travolta", "Uma Thurman"]
...    },
...    {
...       "title": "Inglorious Basterds",
...       "writer": "Quentin Tarantino",
...       "year": 2009,
...       "sinopsis": "Lucha",
...       "actors": ["Brad Pitt", "Diane Kruger", "Eli Roth"]
...    },
...    {
...       "title": "The Hobbit: An Unexpected Journey",
...       "writer": "J.R.R. Tolkein",
...       "year": 2012,
...       "sinopsis": "Lucha",
...       "franchise": "The Hobbit"
...    },
...    {
...       "title": "The Hobbit: The Desolation of Smaug",
...       "writer": "J.R.R. Tolkein",
...       "year": 2013,
...       "sinopsis": "Lucha",
...       "franchise": "The Hobbit"
...    },
...    {
...       "title": "The Hobbit: The Battle of the Five Armies",
...       "writer": "J.R.R. Tolkein",
...       "year": 2012,
...       "sinopsis": "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.",
...       "franchise": "The Hobbit"
...    }
```

4. REALIZAR LAS SIGUIENTES BUSQUEDAS

• Obtener todos los documentos

```
> db.MOVIES.find({})
{ "_id" : ObjectId("65026f0bd2d22fbda59fc86d"), "title" : "Fight Club", "writer" : "Chuck Palahniuk", "year" : 1999, "sinopsis" : "Lucha", "actors" : [ "Brad Pitt", "Ed
ward Norton" ] }
{ "_id" : ObjectId("65026f0bd2d22fbda59fc86e"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "sinopsis" : "Lucha", "actors" : [ "John Travol
ta", "Uma Thurman" ] }
{ "_id" : ObjectId("65026f0bd2d22fbda59fc86f"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "sinopsis" : "Lucha", "actors" : [ "Brad
 Pitt", "Diane Kruger", "Eli Roth" ] }
{ "_id" : ObjectId("65026f0bd2d22fbda59fc870"), "title" : "The Hobbit: An Unexpected Journey", "writer" : "J.R.R. Tolkein", "year" : 2012, "sinopsis" : "Lucha", "franch
ise" : "The Hobbit" }
{ "_id" : ObjectId("65026f0bd2d22fbda59fc871"), "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein", "year" : 2013, "sinopsis" : "Lucha", "fran
chise" : "The Hobbit" }
{ "_id" : ObjectId("65026f0bd2d22fbda59fc872"), "title" : "The Hobbit: The Battle of the Five Armies", "writer" : "J.R.R. Tolkein", "year" : 2012, "sinopsis" : "Bilbo a
nd 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.", "franchise" : "
The Hobbit" }
>
```

• Obtener documentos con writer igual a "Quentin Tarantino"

```
> db.MOVIES.find({ "writer": "Quentin Tarantino" }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86e"),
        "title" : "Pulp Fiction",
        "writer" : "Quentin Tarantino",
        "year" : 1994,
        "sinopsis" : "Lucha",
        "actors" : [
                "John Travolta",
                "Uma Thurman"
        ]
}
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86f"),
        "title" : "Inglorious Basterds",
        "writer" : "Quentin Tarantino",
        "year" : 2009,
        "sinopsis" : "Lucha",
        "actors" : [
                "Brad Pitt",
                "Diane Kruger",
                "Eli Roth"
        ]
}
```

• Obtener documentos con actors que incluyan a "Brad Pitt"

```
> db.MOVIES.find({ "actors": "Brad Pitt" }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86d"),
        "title" : "Fight Club",
        "writer" : "Chuck Palahniuk",
        "year" : 1999,
        "sinopsis" : "Lucha",
        "actors" : [
                "Brad Pitt",
                "Edward Norton"
        ]
}
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86f"),
        "title" : "Inglorious Basterds",
        "writer" : "Quentin Tarantino",
        "year" : 2009,
        "sinopsis" : "Lucha",
        "actors" : [
                "Brad Pitt",
                "Diane Kruger",
                "Eli Roth"
        ]
}
```

• Obtener documentos con franchise igual a "The Hobbit"

```
> db.MOVIES.find({ "franchise": "The Hobbit" }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc870"),
        "title" : "The Hobbit: An Unexpected Journey",
        "writer" : "J.R.R. Tolkein",
        "year" : 2012,
        "sinopsis" : "Lucha",
        "franchise" : "The Hobbit"
}
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc871"),
        "title" : "The Hobbit: The Desolation of Smaug",
        "writer" : "J.R.R. Tolkein",
        "year" : 2013,
        "sinopsis" : "Lucha",
        "franchise" : "The Hobbit"
}
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc872"),
        "title" : "The Hobbit: The Battle of the Five Armies",
        "writer" : "J.R.R. Tolkein",
        "year" : 2012,
        "sinopsis" : "Bilbo and Company are forced to engage in a war
g darkness.",
        "franchise" : "The Hobbit"
}
```

• Obtener todas las películas de los 90s.

```
> db.MOVIES.find({ "year": { $gte: 1990, $lte: 1999 } }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86d"),
        "title" : "Fight Club",
        "writer" : "Chuck Palahniuk",
        "year" : 1999,
        "sinopsis" : "Lucha",
        "actors" : [
                "Brad Pitt",
                "Edward Norton"
        ]
}
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86e"),
        "title" : "Pulp Fiction",
        "writer" : "Quentin Tarantino",
        "year" : 1994,
        "sinopsis" : "Lucha",
        "actors" : [
                "John Travolta",
                "Uma Thurman"
        ]
}
```

• Obtener las películas estrenadas entre el año 2000 y 2010. Por texto:

```
> db.MOVIES.find({   "year": { $gte: 2000, $lte: 2010 } }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc86f"),
        "title" : "Inglorious Basterds",
        "writer" : "Quentin Tarantino",
        "year" : 2009,
        "sinopsis" : "Lucha",
        "actors" : [
                "Brad Pitt",
                "Diane Kruger",
                "Eli Roth"
        ]
}
```

• Encontrar las películas que en la sinopsis contengan la palabra "Bilbo"

```
> db.MOVIES.find({ "sinopsis": { $regex: /Bilbo/i } }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc872"),
        "title" : "The Hobbit: The Battle of the Five Armies",
        "writer" : "J.R.R. Tolkein",
        "year" : 2012,
        "sinopsis" : "Bilbo and Company are forced to engage in a war aga
g darkness.",
        "franchise" : "The Hobbit"
}
```

• Encontrar las películas que en la sinopsis contengan la palabra "Bilbo" y no la palabra "Gandalf"

```
> db.MOVIES.find({ $and: [{ "sinopsis": { $regex: /Bilbo/i } }, { "sinopsis": { $not: /Gandalf/i } }] }).pretty()
{
        "_id" : ObjectId("65026f0bd2d22fbda59fc872"),
        "title" : "The Hobbit: The Battle of the Five Armies",
        "writer" : "J.R.R. Tolkein",
        "year" : 2012,
        "sinopsis" : "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonel
g darkness.",
        "franchise" : "The Hobbit"
}
```

• Encontrar las películas que en la sinopsis contengan la palabra "gold" y "dragon"
• Encontrar las películas que en la sinopsis contengan la palabra "dwarves" ó "hobbit"
• Encontrar las películas que en la sinopsis contengan la palabra "Gandalf"

```
> db.MOVIES.find({ "sinopsis": { $regex: /gold.*dragon|dragon.*gold/i } })
> db.MOVIES.find({ "sinopsis": { $regex: /dwarves|hobbit/i } })
> db.MOVIES.find({ "sinopsis": { $regex: /Gandalf/i } })
>
```

5. REALIZAR LAS SIGUIENTES ACTUALIZACIONES

• Agregar sinopsis a "The Hobbit: An Unexpected Journey" : "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."

• Agregar sinopsis a "The Hobbit: The Desolation of Smaug" : "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."

• Agregar un actor llamado "Samuel L. Jackson" a la película "Pulp Fiction".

```
> db.MOVIES.updateOne(
...     { "title": "The Hobbit: An Unexpected Journey" },
...     { $set: { "sinopsis": "A reluctant hobbit, Bilbo Baggins, sets out
he gold within it - from the dragon Smaug." } }
... )
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.MOVIES.updateOne(
...     { "title": "The Hobbit: The Desolation of Smaug" },
...     { $set: { "sinopsis": "The dwarves, along with Bilbo Baggins and Ga
ins is in possession of a mysterious and magical ring." } }
... )
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.MOVIES.updateOne(
...     { "title": "Pulp Fiction" },
...     { $push: { "actors": "Samuel L. Jackson" } }
... )
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>
```

6. ELIMINAR
• Eliminar la película "Pee Wee Herman's Big Adventure"
• Eliminar la película "Avatar"

```
> db.MOVIES.deleteOne({title:"Pee Wee Herman's Big Adventure"})
{ "acknowledged" : true, "deletedCount" : 0 }
> db.MOVIES.deleteOne({ "title": "Avatar" })
{ "acknowledged" : true, "deletedCount" : 0 }
>
```