

Crear una base de datos llamada cine.

```
test> use cine
switched to db cine
cine>
```

Insertar los siguientes documentos en una colección llamada películas.

Consultas / Buscar documentos

```
cine> db.peliculas.insertMany([({titulo : "Fight Club",director : "Chuck Palahniuk",anio : 1999,actores : ["Brad Pitt","Edward Norton"]},{titulo : "Pulp Fiction",director : "Quentin Tarantino",anio : 1994,actores : ["John Travolta","Uma Thurman"]}))
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6363d6bd57f14a271f2a2b9f"),
    '1': ObjectId("6363d6bd57f14a271f2a2ba0")
  }
}
cine>
```

```
cine> db.peliculas.insertMany([({titulo : "Inglorious Basterds",director : "Quentin Tarantino",anio : 2009,actores : ["Brad Pitt","Diane Kruger","Elie Wazler"]},{titulo : "The Hobbit: An Unexpected Journey",director : "J.R.R. Tolkien",anio : 2012,saga : "The Hobbit"},({titulo : "The Hobbit: The Desolation of Smaug",director : "J.R.R. Tolkien",anio : 2013,saga : "The Hobbit"},({titulo : "The Hobbit: The Battle of the Five Armies",director : "J.R.R. Tolkien",anio : 2012,saga : "The Hobbit",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."},{titulo : "Pee Wee Herman's Big Adventure"},({titulo : "Avatar"}))
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6363d81657f14a271f2a2ba1"),
    '1': ObjectId("6363d81657f14a271f2a2ba2"),
    '2': ObjectId("6363d81657f14a271f2a2ba3"),
    '3': ObjectId("6363d81657f14a271f2a2ba4"),
    '4': ObjectId("6363d81657f14a271f2a2ba5"),
    '5': ObjectId("6363d81657f14a271f2a2ba6")
  }
}
cine>
```

Realizar las siguientes consultas en la colección películas:

1. Obtener todos los documentos y mostrar solo el título y año.

```
cine> db.peliculas.find({}, {titulo : 1, anio:1}).pretty()
[
  {
    _id: ObjectId("6363d6bd57f14a271f2a2b9f"),
    titulo: 'Fight Club',
    anio: 1999
  },
  {
    _id: ObjectId("6363d6bd57f14a271f2a2ba0"),
    titulo: 'Pulp Fiction',
    anio: 1994
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba1"),
    titulo: 'Inglorious Basterds',
    anio: 2009
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba2"),
    titulo: 'The Hobbit: An Unexpected Journey',
    anio: 2012
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba3"),
    titulo: 'The Hobbit: The Desolation of Smaug',
    anio: 2013
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba4"),
    titulo: 'The Hobbit: The Battle of the Five Armies',
    anio: 2012
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba5"),
    titulo: 'Pee Wee Herman's Big Adventure'
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba6"),
    titulo: 'Avatar'
  }
]
```

2. Obtener documentos con director igual a "Quentin Tarantino", mostrar título y actores.

```
cine> db.peliculas.find({director : "Quentin Tarantino"},{titulo : 1,actores:1}).pretty()
[
  {
    _id: ObjectId("6363d6bd57f14a271f2a2ba0"),
    titulo: 'Pulp Fiction',
    actores: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba1"),
    titulo: 'Inglorious Basterds',
    actores: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  }
]
cine>
```

3. Obtener documentos con actores que incluyan a "Brad Pitt", mostrar título, año y director.

```
cine> db.peliculas.find({actores : "Brad Pitt"},{titulo : 1,año:1,director:1}).pretty()
[
  {
    _id: ObjectId("6363d6bd57f14a271f2a2b9f"),
    titulo: 'Fight Club',
    director: 'Chuck Palahniuk',
    año: 1999
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba1"),
    titulo: 'Inglorious Basterds',
    director: 'Quentin Tarantino',
    año: 2009
  }
]
cine>
```

4. Obtener documentos con saga igual a "The Hobbit", mostrar título y sinopsis.

```
cine> db.peliculas.find({saga: {$regex: "The Hobbit"}},{titulo : 1,sinopsis:1}).pretty()
[
  {
    _id: ObjectId("6363d81657f14a271f2a2ba2"),
    titulo: 'The Hobbit: An Unexpected Journey'
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba3"),
    titulo: 'The Hobbit: The Desolation of Smaug'
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba4"),
    titulo: 'The Hobbit: The Battle of the Five Armies',
    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.'
  }
]
cine>
```

5. Obtener todas las películas de los 90s, ordenada de más reciente a menos y muestra el título y año.

```
cine> db.peliculas.find({año:{$gte :1990},año:{$lte:1999}},{titulo:1,año:1}).sort({año:-1})
[
  {
    _id: ObjectId("6363d6bd57f14a271f2a2b9f"),
    titulo: 'Fight Club',
    año: 1999
  },
  {
    _id: ObjectId("6363d6bd57f14a271f2a2ba0"),
    titulo: 'Pulp Fiction',
    año: 1994
  }
]
cine>
```

- Obtener las películas estrenadas entre el año 2000 y 2010, ordenadas alfabéticamente por el título y muestra título, director y saga.

```
cine> db.peliculas.find({anio:{$gte :2000},anio:{$lte:2010}},{titulo:1,director: 1, saga: 1}).sort({titulo:1})
[
  {
    _id: ObjectId("6363d6bd57f14a271f2a2b9f"),
    titulo: 'Fight Club',
    director: 'Chuck Palahniuk'
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba1"),
    titulo: 'Inglorious Basterds',
    director: 'Quentin Tarantino'
  },
  {
    _id: ObjectId("6363d6bd57f14a271f2a2ba0"),
    titulo: 'Pulp Fiction',
    director: 'Quentin Tarantino'
  }
]
cine>
```

Actualizar Documentos

- 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."

```
cine> db.peliculas.updateOne({titulo: "The Hobbit: An Unexpected Journey"},{$set: {sinopsis : "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group of dwarves to reclaim the mountain home - and the gold within it - from the dragon Smaug."}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
cine>
```

- 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."

```
cine> db.peliculas.updateOne({titulo: "The Hobbit: The Desolation of Smaug"},{$set: {sinopsis : "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,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
cine>
```

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

```
cine> db.peliculas.updateOne({titulo: "Pulp Fiction"},{$push: {actores : "Samuel L. Jackson"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
cine>
```

Busqueda por Texto / Text Search

1. Encontrar las películas que en la sinopsis contengan la palabra "Bilbo"

```
cine> db.peliculas.find({'sinopsis': {'regex': 'Bilbo'}})
[
  {
    _id: ObjectId("6363d81657f14a271f2a2ba2"),
    titulo: 'The Hobbit: An Unexpected Journey',
    director: 'J.R.R. Tolkien',
    anio: 2012,
    saga: 'The Hobbit',
    sinopsis: '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("6363d81657f14a271f2a2ba3"),
    titulo: 'The Hobbit: The Desolation of Smaug',
    director: 'J.R.R. Tolkien',
    anio: 2013,
    saga: 'The Hobbit',
    sinopsis: '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 an mysterious and magical ring.'
  },
  {
    _id: ObjectId("6363d81657f14a271f2a2ba4"),
    titulo: 'The Hobbit: The Battle of the Five Armies',
    director: 'J.R.R. Tolkien',
    anio: 2012,
    saga: 'The Hobbit',
    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.'
  }
]
cine>
```

2. Encontrar las películas que en la sinopsis contengan la palabra "Gandalf"

```
cine> db.peliculas.find({'sinopsis': {'regex': 'Gandalf'}})
[
  {
    _id: ObjectId("6363d81657f14a271f2a2ba3"),
    titulo: 'The Hobbit: The Desolation of Smaug',
    director: 'J.R.R. Tolkien',
    anio: 2013,
    saga: 'The Hobbit',
    sinopsis: '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 an mysterious and magical ring.'
  }
]
cine>
```

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

```
cine> db.peliculas.find({'$and': [{'$nor': [{'sinopsis': {'regex': 'Gandalf'}}]}, {'sinopsis': {'regex': 'Bilbo'}}]})
[
  {
    _id: ObjectId("6363d81657f14a271f2a2ba2"),
    titulo: 'The Hobbit: An Unexpected Journey',
    director: 'J.R.R. Tolkien',
    anio: 2012,
    saga: 'The Hobbit',
    sinopsis: '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("6363d81657f14a271f2a2ba4"),
    titulo: 'The Hobbit: The Battle of the Five Armies',
    director: 'J.R.R. Tolkien',
    anio: 2012,
    saga: 'The Hobbit',
    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.'
  }
]
cine>
```

4. Encontrar las películas que en la sinopsis contengan la palabra "dwarves" ó "hobbit"

```
cine> db.peliculas.find({'$or': [{'sinopsis': {'regex': 'dwarves'}}, {'sinopsis': {'regex': 'hobbit'}}]})
[
  {
    _id: ObjectId("6363d81657f14a271f2a2ba2"),
    titulo: 'The Hobbit: An Unexpected Journey',
    director: 'J.R.R. Tolkien',
    anio: 2012,
    saga: 'The Hobbit',
    sinopsis: '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("6363d81657f14a271f2a2ba3"),
    titulo: 'The Hobbit: The Desolation of Smaug',
    director: 'J.R.R. Tolkien',
    anio: 2013,
    saga: 'The Hobbit',
    sinopsis: '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 an mysterious and magical ring.'
  }
]
cine>
```

5. Encontrar las películas que en la sinopsis contengan la palabra "gold" y "dragon"

```
cine> db.peliculas.find({$and:[{$sinopsis:{$regex:"gold"}},{sinopsis: {$regex:"dragon"}}]})
[
  {
    _id: ObjectId("6363d81657f14a271f2a2ba2"),
    titulo: 'The Hobbit: An Unexpected Journey',
    director: 'J.R.R. Tolkien',
    año: 2012,
    saga: 'The Hobbit',
    sinopsis: '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.'
  }
]
cine>
```

Eliminar Documentos

1. Eliminar la película "Pee Wee Herman's Big Adventure"

```
cine> db.peliculas.deleteOne({titulo:"Pee Wee Herman's Big Adventure"})
{ acknowledged: true, deletedCount: 1 }
cine>
```

2. Eliminar la película "Avatar"

```
cine> db.peliculas.deleteOne({titulo:"Avatar"})
{ acknowledged: true, deletedCount: 1 }
cine>
```