

## UD3.T2 Operaciones CRUD sobre BD CINE

### **Consultas / Buscar documentos**

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})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44a"),
    titulo: 'Fight Club',
    anio: 1999
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44b"),
    titulo: 'Pulp Fiction',
    anio: 1994
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44c"),
    titulo: 'Inglorious Basterds',
    anio: 2009
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44d"),
    titulo: 'The Hobbit: An Unexpected Journey',
    anio: 2012
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44e"),
    titulo: 'The Hobbit: The Desolation of Smaug',
    anio: 2013
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44f"),
    titulo: 'The Hobbit: The Battle of the Five Armies',
    anio: 2012
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c450"),
    titulo: 'Pee Wee Hermans Big Adventure'
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c451"),
    titulo: 'Avatar'
  }
]
```

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

```
cine> db.peliculas.find({director:{ $eq: "Quentin Tarantino" }}, {titulo:1, actores:1})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44b"),
    titulo: 'Pulp Fiction',
    actores: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44c"),
    titulo: 'Inglorious Basterds',
    actores: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  }
]
```

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

```
cine> db.peliculas.find({actores:{ $in: ["Brad Pitt"] }}, {titulo:1, anio:1, director:1})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44a"),
    titulo: 'Fight Club',
    director: 'Chuck Palahniuk',
    anio: 1999
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44c"),
    titulo: 'Inglorious Basterds',
    director: 'Quentin Tarantino',
    anio: 2009
  }
]
```

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

```
cine> db.peliculas.find({saga:{ $eq: "The Hobbit" }}, {titulo:1, sinopsis:1})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44d"),
    titulo: 'The Hobbit: An Unexpected Journey'
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44e"),
    titulo: 'The Hobbit: The Desolation of Smaug'
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44f"),
    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.'
  }
]
```

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

```
cine> db.peliculas.find({$and:[{anio:{ $gte:1990 }}, {anio:{ $lt:2000 } }]}, {titulo:1, anio:1}).sort({anio:-1})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44a"),
    titulo: 'Fight Club',
    anio: 1999
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44b"),
    titulo: 'Pulp Fiction',
    anio: 1994
  }
]
```

#### 6. 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({$and:[{anio:{ $gt:2000 }}, {anio:{ $lt:2010 } }]}, {titulo:1, director:1, saga:1}).sort({titulo:1})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44c"),
    titulo: 'Inglorious Basterds',
    director: 'Quentin Tarantino'
  }
]
```

### Actualizar Documentos

#### 1. 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 their mountain home - and the gold within it - from the dragon Smaug."}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

#### 2. 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
}
```

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

```

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

```

## Busqueda por Texto / Text Search

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

```

cine> db.peliculas.find({sinopsis:/Bilbo/})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44d"),
    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("6363e20f3b7dc5c0f2e4c44e"),
    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 a mysterious and magical ring.'
  },
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44f"),
    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.'
  }
]

```

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

```

cine> db.peliculas.find({sinopsis:/Gandalf/})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44e"),
    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 a mysterious and magical ring.'
  }
]

```

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

```

cine> db.peliculas.find({$and: [{sinopsis: /Bilbo/}, {sinopsis: {$not:/Gandalf/}}]})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44d"),
    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("6363e20f3b7dc5c0f2e4c44f"),
    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.'
  }
]

```

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

```
cine> db.peliculas.find({$or: [{sinopsis: /dwarves/}, {sinopsis: /hobbit/}]})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44d"),
    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("6363e20f3b7dc5c0f2e4c44e"),
    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 a mysterious and magical ring.'
  }
]
```

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

```
cine> db.peliculas.find({$and:[{sinopsis:/gold/},{sinopsis:/dragon/}]})
[
  {
    _id: ObjectId("6363e20f3b7dc5c0f2e4c44d"),
    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.'
  }
]
```

## Eliminar Documentos

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

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

2. Eliminar la película "Avatar".

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