

TP MongoDB

Connectez-vous à mongoDB puis créer une nouvelle base de données cinema.

Création de document :

- a. Ajoutez une nouvelle collection « films »
- b. Ajoutez les films suivants dans cette collection :

```
title : Fight Club
writer : Chuck Palahniuk
year : 1999
actors : [
  Brad Pitt
  Edward Norton
]
```

```
title : Pulp Fiction
writer : Quentin Tarantino
year : 1994
actors : [
  John Travolta
  Uma Thurman
]
```

```
title : Inglorious Basterds
writer : Quentin Tarantino
year : 2009
actors : [
  Brad Pitt
  Diane Kruger
  Eli Roth
]
```

```
title : The Hobbit: An Unexpected Journey
writer : J.R.R. Tolkein
year : 2012
franchise : The Hobbit
```

```
title : The Hobbit: The Desolation of Smaug
writer : J.R.R. Tolkein
year : 2013
franchise : The Hobbit
```

```
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 a rising
darkness.
```

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

```
title : Avatar
```

Requêtes :

- a. Récupérer tous les films
- b. Récupérer tous les films de Tarantino
- c. Récupérer tous les films avec Brad Pitt
- d. Récupérer tous les films de la franchise « The Hobbit »
- e. Récupérer tous les films des années 90
- f. Récupérer tous les films sortis entre 2000 et 2010
- g. Ajoutez le synopsis au film "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."
- h. Ajoutez le synopsis au film "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."
- i. Ajoutez l'acteur "Samuel L. Jackson" au film "Pulp Fiction"

N'hésitez pas à regarder la page suivante pour la question i :

<https://docs.mongodb.com/manual/reference/operator/update/push/>

Recherches textuelles :

Une petite visite de l'url

<https://docs.mongodb.com/manual/reference/operator/query/text/index.html>

pourra vous aider pour cette série de questions.

- a. Trouver tous les films dont le synopsis contient le mot "Bilbo"
- b. Trouver tous les films dont le synopsis contient le mot "Gandalf"
- c. Trouver tous les films dont le synopsis contient le mot "Bilbo" et pas le mot "Gandalf"
- d. Trouver tous les films dont le synopsis contient le mot "dwarves" ou "hobbit"
- e. Trouver tous les films dont le synopsis contient le mot "gold" et "dragon"

Suppressions :

- a. Supprimer les films Pee Wee et Avatar de la collection

Solution :**Création :**

- a. Use cinema
- b. `db.films.insert({title:"Fight Club", writer:"Chuck Palahniuk", year:1999, actors:["Brad Pitt","Edward Norton"]})`

`db.films.insert({title:"Pulp Fiction", writer:"Quentin Tarantino", year:1994, actors:["John Travolta ","Uma Thurman"]})`

`db.films.insert({title:"Inglorious Blasters", writer:"Quentin Tarantino", year:2009, actors:["Brad Pitt","Diane Kruger","Eli Roth"]})`

`db.films.insert({title:"The Hobbit: An Unexpected Journey ", writer:" J.R.R. Tolkein", year:2012, franchise:"The Hobbit"})`

`db.films.insert({title:"The Hobbit: The Desolation of Smaug ", writer:" J.R.R. Tolkein", year:2013, franchise:"The Hobbit"})`

`db.films.insert({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 a rising darkness" })`

`db.films.insert({title:"Pee wee "})`

`db.films.insert({title:"Avatar"})`

Requêtes :

- a. `db.films.find()`
- b. `db.films.find({writer: "Quentin Tarantino"})`
- c. `db.films.find({actors: "Brad Pitt"})`
- d. `db.films.find({franchise: "The Hobbit"})`
- e. `db.films.find({$and: [{year: {$gt: 1900}}, {year: {$lt: 2000}}]})`
- f. `db.films.find({$or: [{year: {$lt: 2000}}, {year: {$gt: 2010}}]})`
- g. `db.films.update({title: "The Hobbit: An Unexpected Journey"}, {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."})`
- h. `db.films.update({title: "The Hobbit: The Desolation of Smaug"}, {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."})`
- i. `db.films.update({title: "Pulp Fiction"}, {$push: {actors: "Samuel L. Jackson"}})`

Recherches textuelles :

- a. `db.films.find({$text: {$search: "Bilbo"}})`
- b. `db.films.find({$text: {$search: "Gandalf"}})`
- c. `db.films.find({$text: {$search: "Bilbo -Gandalf"}})`

- d. `db.films.find({$text: {$search: "dwarves hobbit"}})`
- e. `db.films.find({$text: {$search: "gold dragon"}})`

Suppressions :

```
db.films.remove({title: "Pee Wee Herman's Big Adventure"})  
db.films.remove({title: "Avatar"})
```

Webographie :

<https://gist.github.com/theRemix/7305403e1ab6fc8674f0>

http://www-connex.lip6.fr/~schwander/enseignement/2016-2017/m2stat_gd/

https://formations.telecom-bretagne.eu/databases/bd_tp_mongodb.html

http://b3d.bdpedia.fr/mongodb_tp.html

<https://www.w3resource.com/mongodb-exercises/>