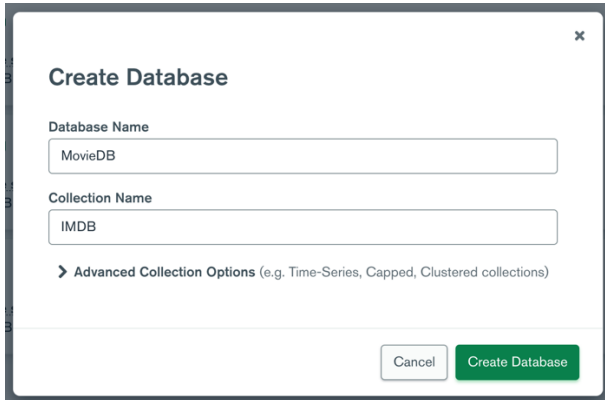


# Part B

## Tasks

Open MongoDB compass and complete the following tasks.

1. Create “MovieDB” database and “IMDB” collection using compass.



**Create Database**

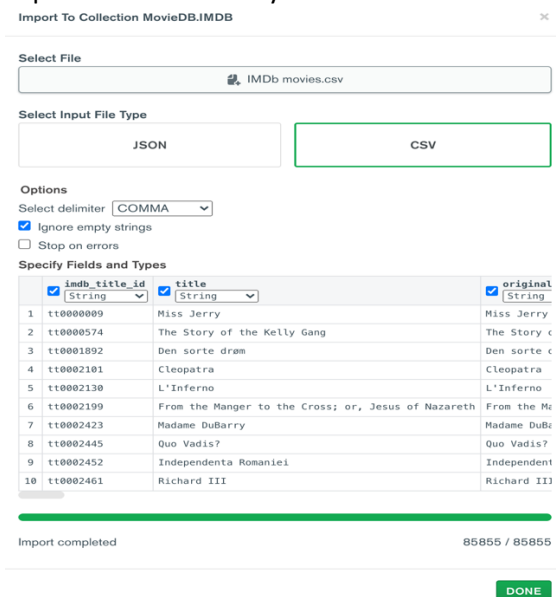
Database Name  
MovieDB

Collection Name  
IMDB

➤ Advanced Collection Options (e.g. Time-Series, Capped, Clustered collections)

Cancel Create Database

2. Export csv file data to your “IMDB” collection.



Import To Collection MovieDB.IMDB

Select File  
IMDb movies.csv

Select Input File Type  
JSON CSV

Options  
Select delimiter: COMMA  
☒ Ignore empty strings  
☐ Stop on errors

Specify Fields and Types

	imdb_title_id	title	original_title
1	tt0000009	Miss Jerry	Miss Jerry
2	tt0000574	The Story of the Kelly Gang	The Story of the Kelly Gang
3	tt0001892	Den sorte drøm	Den sorte drøm
4	tt0002101	Cleopatra	Cleopatra
5	tt0002130	L'Inferno	L'Inferno
6	tt0002199	From the Manger to the Cross; or, Jesus of Nazareth	From the Manger to the Cross; or, Jesus of Nazareth
7	tt0002423	Madame DuBarry	Madame DuBarry
8	tt0002445	Quo Vadis?	Quo Vadis?
9	tt0002452	Independenta Romaniei	Independenta Romaniei
10	tt0002461	Richard III	Richard III

Import completed 85855 / 85855

DONE

3. Conduct **schema validation** to ensure that each movie in the collection will have at least title, year, genre, and duration fields.

Validation

MovieDB.IMDB

+

MovieDB.IMDB

85.9k

1

DOCUMENTS

INDEXES

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

```
1
2
3 db.createCollection("movies", {
4   validator: ~{
5     $jsonSchema: {
6       bsonType: "object",
7       required: ["title", "genres"],
8       properties: {
9         title: {
10          bsonType: "string",
11          description: 'must be a string and is required'
12        },
13        genres: {
14          bsonType: ["array"],
15          items: {
16            bsonType: "string",
17            description: "an array of strings is required"
18          }
19        }
20      }
21    }
22  })
23
24
```

4. Write a query on compass to find the information of the movie titled “Alice in Wonderland”.

Documents

MovieDB.IMDB

+

MovieDB.IMDB

85.9k

1

DOCUMENTS

INDEXES

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

FILTER

{title: 'Alice in Wonderland'}

OPTIONS

FIND

RESET

↺

⋮

ADD DATA

VIEW

⋮

{}

⌂

Displaying documents 1 - 4 of 4

⏮

⏪

⏩

⏭

REFRESH

```
_id: ObjectId('62ff14856cda0a8258dce0ff')
imdb_title_id: "tt0004873"
title: "Alice in Wonderland"
original_title: "Alice in Wonderland"
year: "1915"
date_published: "1915-01-19"
genre: "Adventure, Family, Fantasy"
duration: "52"
country: "USA"
language: "English"
director: "W.W. Young"
writer: "Lewis Carroll, W.W. Young"
production_company: "Nonpareil Feature Film Corp."
actors: "Viola Savoy, Herbert Rice, Harry Marks, Louis Merkle, William Tilden"
description: "Alice goes with her sister to a picnic and then she falls asleep and s..."
avg_vote: "6.2"
votes: "394"
budget: "$ 50000"
reviews_from_users: "11.0"
reviews_from_critics: "8.0"
```

5. Write a query on compass to find all movies released in a particular year.

The screenshot shows the MongoDB Compass interface for the 'MovieDB.IMDB' database. The 'Documents' tab is selected. A query is entered in the 'FILTER' field: `{year: '2000'}`. The query is highlighted with a red box. The 'PROJECT' field is `{ field: 0 }`, the 'SORT' field is `{ field: -1 } or [['field', -1]]`, and the 'COLLATION' field is `{ locale: 'simple' }`. The 'MAX TIME MS' is set to 60000. The 'SKIP' and 'LIMIT' fields are both set to 0. The 'FIND' button is highlighted in green. The results show a document for the movie 'Nihon boryoku-dan: Kumicho' with a year of '2000'.

```
{
  "_id": ObjectId('62ff14896cda0a8258dd1800'),
  "imdb_title_id": "tt0064730",
  "title": "Nihon boryoku-dan: Kumicho",
  "original_title": "Nihon boryoku-dan: Kumicho",
  "year": "2000",
  "date_published": "1969",
  "genre": "Action, Crime",
  "duration": "97",
  "country": "Japan",
  "language": "Japanese",
  "director": "Kinji Fukasaku",
  "writer": "Kinji Fukasaku, Fumio Kônamî",
  "production_company": "Toei Company",
  "actors": "Kôji Tsuruta, Tomisaburô Wakayama, Bunta Sugawara, Noboru Andô, Michit...",
  "description": "Coming out of jail and hoping for a quiet life, Yokohama yakuza has to...",
  "avg_vote": "7.0"
}
```

6. Write a query on compass to find all movies with a duration greater than 70 minutes.

The screenshot shows the MongoDB Compass interface for the 'MovieDB.IMDB' database. The 'Documents' tab is selected. A query is entered in the 'FILTER' field: `{ duration: { $gt: '70' } }`. The query is highlighted with a red box. The 'PROJECT' field is `{ field: 0 }`, the 'SORT' field is `{ field: -1 } or [['field', -1]]`, and the 'COLLATION' field is `{ locale: 'simple' }`. The 'MAX TIME MS' is set to 60000. The 'SKIP' and 'LIMIT' fields are both set to 0. The 'FIND' button is highlighted in green. The results show a document for the movie 'Madame DuBarry' with a duration of '85'.

```
{
  "_id": ObjectId('62ff14856cda0a8258dce0d7'),
  "imdb_title_id": "tt0002423",
  "title": "Madame DuBarry",
  "original_title": "Madame DuBarry",
  "year": "1919",
  "date_published": "1919-11-26",
  "genre": "Biography, Drama, Romance",
  "duration": "85",
  "country": "Germany",
  "language": "German",
  "director": "Ernst Lubitsch",
  "writer": "Norbert Falk, Hanns Kräly",
  "production_company": "Projektions-AG Union (PAGU)",
  "actors": "Pola Negri, Emil Jannings, Harry Liedtke, Eduard von Winterstein, Rein...",
  "description": "The story of Madame DuBarry, the mistress of Louis XV of France, and h...",
  "avg_vote": "6.8",
  "votes": "753",
  "reviews_from_users": "12.0",
  "reviews_from_critics": "9.0"
}
```

7. Write a query on compass to find all movies with a duration less than 75 minutes and with horror as the genre.

**MovieDB.IMDB** 85.9k DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

**FILTER** { duration: { \$lt: '75' } }

**PROJECT** { field: 0 }

**SORT** { field: -1 } or [['field', -1]]

**COLLATION** { locale: 'simple' }

MAX TIME MS 60000

SKIP 0 LIMIT 0

ADD DATA VIEW

Displaying documents 1 - 20 of 40662 REFRESH

```
{
  "_id": "ObjectId('62ff14856cda0a8258dce0d1')",
  "imdb_title_id": "tt0000009",
  "title": "Miss Jerry",
  "original_title": "Miss Jerry",
  "year": "1894",
  "date_published": "1894-10-09",
  "genre": "Romance",
  "duration": "45",
  "country": "USA",
  "language": "None",
  "director": "Alexander Black",
  "writer": "Alexander Black",
  "production_company": "Alexander Black Photoplays",
  "actors": "Blanche Bayliss, William Courtenay, Chauncey Depew",
  "description": "The adventures of a female reporter in the 1890s.",
  "avg_vote": "5.9",
  "votes": "154",
  "reviews_from_users": "1.0",
  "reviews_from_critics": "2.0"
}
```

8. Update the genre of any of your two favorite movies to “drama” using the command `db.collection.updateMany()` in Mongosh. Verify your results using the command `db.collection.find()`.

```
db.IMDB.updateMany({title: "The Bargain"}, {$set:{genre: "Drama"}})
db.IMDB.updateMany({title: "A Florida Enchantment"}, {$set:{genre: "Drama"}})

db.collection.find({title: "The Bargain"})
db.collection.find({title: "A Florida Enchantment"})
```