**CS 5200 Homework 9**

Use MongoDB Compass to connect to the Mongo Atlas database to create the following filters.

**The address for the database is: mongodb+srv://student:student@cluster0.jabrq.mongodb.net/test**

Paste the above connection string into MongoDB Compass and connect.

**Please submit a text file, preferably a pdf file with the filters, to canvas named hwk9lastnamefi.pdf.**

1. Write a filter to return all films (type is movie) having the title **"Titanic"**.

   {type:"movie",title:"Titanic"}

2. How many records are returned for question 1?

   2

3. Write a filter that returns all the films (type is movie) that are directed by **"Jean Negulesco"**?

   {type:"movie",directors:"Jean Negulesco"}

4. How many records are returned for question 3?

   8

5. Write a filter that returns all the films (type is movie) that are directed by **"Jean Negulesco"** and has a rated field value **"APPROVED"**?

   {type:"movie",$and:[{directors:"Jean Negulesco"},{rated:"APPROVED"}]}

6. How many records are returned for question 5?

   2

7. Write a filter to return all films (type is movie).

   {type:"movie"}

8. How many records are returned for question 7?

   23276

9. Write a filter that returns all films (type is movie) that have a rating of **"APPROVED"** or a rating of **"NOT RATED"**?

   { type:"movie", $or: [ { rated: "APPROVED" }, { rated: "NOT RATED" } ] }

10. How many records are returned for question 9?

    2051

11. Write a filter that returns all films (type is movie) that have a rating of **"APPROVED" or** a rating of **"NOT RATED"** and directed by **"Jean Negulesco"**?

{type:"movie",directors:"Jean Negulesco",$or: [{ rated: "APPROVED" }, { rated: "NOT RATED" }]}

12. How many records are returned for question 11?

3

13. Write a filter to return all films (type is movie) that have **exactly** 2 languages.

{type:"movie",languages:{$size:2}}

14. How many records are returned for question 13?

3640

15. Write a filter that returns all films (type is movie) that have **more than** 1 language.

{type:"movie","languages.1": {$exists: true} }

16. How many records are returned for question 15?

6021

17. Write a filter to return all film (type is movie) that have an **IMDB rating > 9.1**

{ type:"movie",'imdb.rating':{ $gt:9.1}}

18. How many records are returned for question 17?

5

19. Write a filter to return all films (type is movie) that has a **rotten tomatoes viewer rating > 4**?

{type:"movie",'tomatoes.viewer.rating': {$gt: 4}}

20. How many records are returned for question 19?

1952