

TAREA DE BASES DE DATOS NO SQL



UNIVERSIDAD
COMPLUTENSE
DE MADRID



MASTER BIG DATA Y BUSINESS ANALYTICS

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EJERCICIOS

0. Realizar con mongoimport la importación del json en una colección llamada “movies”.

The screenshot shows the NoSQLBooster for MongoDB interface. The left sidebar displays the database structure with collections like 'inventory' and 'movies'. The main window shows a query in the 'test' collection: `db.movies.find({}).projection({}).sort({_id:-1}).limit(100)`. Below the query, the results are displayed in a table format, showing columns for _id, title, year, cast, and genres. The table lists 14 movies, including 'Destroyer', 'Aquaman', 'On the Basis of Sex', 'Holmes and Watson', 'Welcome to Marwen', 'Mary Poppins Returns', 'Conundrum: Secrets Among Friends', 'Bumblebee', 'Widows', 'Second Act', 'Spider-Man: Into the Spider-Verse', 'Vice', 'The Mule', and 'Mortal Engines'.

_id	title	year	cast	genres
6234bfa0540b06bf87de	Destroyer	2018	Array[5]	Array[2]
6234bfa0540b06bf87de	Aquaman	2018	Array[7]	Array[3]
6234bfa0540b06bf87de	On the Basis of Sex	2018	Array[7]	Array[2]
6234bfa0540b06bf87de	Holmes and Watson	2018	Array[8]	Array[3]
6234bfa0540b06bf87de	Welcome to Marwen	2018	Array[7]	Array[2]
6234bfa0540b06bf87de	Mary Poppins Returns	2018	Array[9]	Array[2]
6234bfa0540b06bf87de	Conundrum: Secrets Among Friends	2018	Array[4]	Array[2]
6234bfa0540b06bf87de	Bumblebee	2018	Array[6]	Array[3]
6234bfa0540b06bf87de	Widows	2018	Array[14]	Array[2]
6234bfa0540b06bf87de	Second Act	2018	Array[9]	Array[2]
6234bfa0540b06bf87de	Spider-Man: Into the Spider-Verse	2018	Array[11]	Array[4]
6234bfa0540b06bf87de	Vice	2018	Array[9]	Array[2]
6234bfa0540b06bf87de	The Mule	2018	Array[6]	Array[3]
6234bfa0540b06bf87de	Mortal Engines	2018	Array[8]	Array[3]

1. Analizar con find la colección.

- En el primer ejemplo queremos ver qué información hay relacionada con la película Destroyer.

```
var query= { "title": "Destroyer" }  
db.movies.find( query )
```

	_id	title	year	cast	genres
1	6234bf9e540b06bf87de	Destroyer	1943	Array[2]	Array[1]
2	6234bf9f540b06bf87de	Destroyer	1988	Array[2]	Array[2]
3	6234bfa0540b06bf87de	Destroyer	2018	Array[5]	Array[2]

The screenshot shows the NoSQLBooster for MongoDB interface with the 'test.movies' collection selected. The query `db.movies.find({title: 'Destroyer'})` has been executed, and the results are displayed in JSON format. The output shows three documents, each representing a movie titled 'Destroyer' with different years and cast members.

```
/* 1 createdAt:18/3/2022 18:21:34*/  
{  
  "_id" : ObjectId("6234bf9e540b06bf87deac57"),  
  "title" : "Destroyer",  
  "year" : 1943,  
  "cast" : [ "Glenn Ford", "Edward G. Robinson" ],  
  "genres" : [ "War" ]  
},  
/* 2 createdAt:18/3/2022 18:21:35*/  
{  
  "_id" : ObjectId("6234bf9f540b06bf87ded4e9"),  
  "title" : "Destroyer",  
  "year" : 1988,  
  "cast" : [ "Lyle Alzado", "Anthony Perkins" ],  
  "genres" : [ "Action", "Horror" ]  
},  
/* 3 createdAt:18/3/2022 18:21:36*/  
{  
  "_id" : ObjectId("6234bfa0540b06bf87def315"),  
  "title" : "Destroyer",  
  "year" : 2018,  
  "cast" : [ "Nicole Kidman", "Tatiana Maslany", "Sebastian Stan", "Toby Kebbell", "Scoot McNairy" ],  
  "genres" : [ "Crime", "Thriller" ]  
}
```

- Ahora queremos investigar sobre el cast alguien que se llame Angelina Jolie a partir del año 2008.

```
var query1 = { "cast": "Angelina Jolie", year: { $gte : 2008 } }  
db.movies.find( query1)
```

	_id	title	year	cast	genres
1	6234bfa0540b06bf87de	Changeling	2008	Array[1]	Array[1]
2	6234bfa0540b06bf87de	Kung Fu Panda	2008	Array[6]	Array[1]
3	6234bfa0540b06bf87de	Wanted	2008	Array[4]	Array[1]
4	6234bfa0540b06bf87de	Salt	2010	Array[3]	Array[2]
5	6234bfa0540b06bf87de	The Tourist	2010	Array[6]	Array[3]
6	6234bfa0540b06bf87de	Kung Fu Panda 2	2011	Array[16]	Array[2]
7	6234bfa0540b06bf87de	Maleficent	2014	Array[4]	Array[1]
8	6234bfa0540b06bf87de	Kung Fu Panda 3	2016	Array[4]	Array[4]

```
movies 0.177 s 8 Docs  
1 /* 1 createdAt:18/3/2022 18:21:36*/  
2 {  
3   "_id" : ObjectId("6234bfa0540b06bf87dee97c"),  
4   "title" : "Changeling",  
5   "year" : 2008,  
6   "cast" : [ "Angelina Jolie" ],  
7   "genres" : [ "Drama" ]  
8 },  
9  
10 /* 2 createdAt:18/3/2022 18:21:36*/  
11 {  
12   "_id" : ObjectId("6234bfa0540b06bf87dee9c5"),  
13   "title" : "Kung Fu Panda",  
14   "year" : 2008,  
15   "cast" : [  
16     "Jack Black",  
17     "Jackie Chan",  
18     "Dustin Hoffman",  
19     "Angelina Jolie",  
20     "Lucy Liu",  
21     "Seth Rogen"16
```

Y por último, queremos ver qué películas salieron en 1900.

```
var query2 = { "year": 1900 }  
db.movies.find( query2)
```

```
movies 0.063 s 17 Docs  
1 /* 1 createdAt:18/3/2022 18:21:33*/  
2 {  
3   "_id" : ObjectId("6234bf9d540b06bf87de829b"),  
4   "title" : "After Dark in Central Park",  
5   "year" : 1900,  
6   "cast" : [ ],  
7   "genres" : [ ]  
8 },  
9  
10 /* 2 createdAt:18/3/2022 18:21:33*/  
11 {  
12   "_id" : ObjectId("6234bf9d540b06bf87de829c"),  
13   "title" : "Buffalo Bill's Wild West Parad",  
14   "year" : 1900,  
15   "cast" : [ ],  
16   "genres" : [ ]  
17 },  
18  
19 /* 3 createdAt:18/3/2022 18:21:33*/  
20 {  
21   "_id" : ObjectId("6234bf9d540b06bf87de829d"),  
22   "title" : "The Great Train Robbery",  
23   "year" : 1900,  
24   "cast" : [ ],  
25   "genres" : [ ]  
26 },  
27  
28 /* 4 createdAt:18/3/2022 18:21:33*/  
29 {  
30   "_id" : ObjectId("6234bf9d540b06bf87de829e"),  
31   "title" : "The Great Train Robbery",  
32   "year" : 1900,  
33   "cast" : [ ],  
34   "genres" : [ ]  
35 },  
36  
37 /* 5 createdAt:18/3/2022 18:21:33*/  
38 {  
39   "_id" : ObjectId("6234bf9d540b06bf87de829f"),  
40   "title" : "The Great Train Robbery",  
41   "year" : 1900,  
42   "cast" : [ ],  
43   "genres" : [ ]  
44 },  
45  
46 /* 6 createdAt:18/3/2022 18:21:33*/  
47 {  
48   "_id" : ObjectId("6234bf9d540b06bf87de8300"),  
49   "title" : "The Great Train Robbery",  
50   "year" : 1900,  
51   "cast" : [ ],  
52   "genres" : [ ]  
53 },  
54  
55 /* 7 createdAt:18/3/2022 18:21:33*/  
56 {  
57   "_id" : ObjectId("6234bf9d540b06bf87de8301"),  
58   "title" : "The Great Train Robbery",  
59   "year" : 1900,  
60   "cast" : [ ],  
61   "genres" : [ ]  
62 },  
63  
64 /* 8 createdAt:18/3/2022 18:21:33*/  
65 {  
66   "_id" : ObjectId("6234bf9d540b06bf87de8302"),  
67   "title" : "The Great Train Robbery",  
68   "year" : 1900,  
69   "cast" : [ ],  
70   "genres" : [ ]  
71 },  
72  
73 /* 9 createdAt:18/3/2022 18:21:33*/  
74 {  
75   "_id" : ObjectId("6234bf9d540b06bf87de8303"),  
76   "title" : "The Great Train Robbery",  
77   "year" : 1900,  
78   "cast" : [ ],  
79   "genres" : [ ]  
80 },  
81  
82 /* 10 createdAt:18/3/2022 18:21:33*/  
83 {  
84   "_id" : ObjectId("6234bf9d540b06bf87de8304"),  
85   "title" : "The Great Train Robbery",  
86   "year" : 1900,  
87   "cast" : [ ],  
88   "genres" : [ ]  
89 },  
90  
91 /* 11 createdAt:18/3/2022 18:21:33*/  
92 {  
93   "_id" : ObjectId("6234bf9d540b06bf87de8305"),  
94   "title" : "The Great Train Robbery",  
95   "year" : 1900,  
96   "cast" : [ ],  
97   "genres" : [ ]  
98 },  
99  
100 /* 12 createdAt:18/3/2022 18:21:33*/  
101 {  
102   "_id" : ObjectId("6234bf9d540b06bf87de8306"),  
103   "title" : "The Great Train Robbery",  
104   "year" : 1900,  
105   "cast" : [ ],  
106   "genres" : [ ]  
107 },  
108  
109 /* 13 createdAt:18/3/2022 18:21:33*/  
110 {  
111   "_id" : ObjectId("6234bf9d540b06bf87de8307"),  
112   "title" : "The Great Train Robbery",  
113   "year" : 1900,  
114   "cast" : [ ],  
115   "genres" : [ ]  
116 },  
117  
118 /* 14 createdAt:18/3/2022 18:21:33*/  
119 {  
120   "_id" : ObjectId("6234bf9d540b06bf87de8308"),  
121   "title" : "The Great Train Robbery",  
122   "year" : 1900,  
123   "cast" : [ ],  
124   "genres" : [ ]  
125 },  
126  
127 /* 15 createdAt:18/3/2022 18:21:33*/  
128 {  
129   "_id" : ObjectId("6234bf9d540b06bf87de8309"),  
130   "title" : "The Great Train Robbery",  
131   "year" : 1900,  
132   "cast" : [ ],  
133   "genres" : [ ]  
134 },  
135  
136 /* 16 createdAt:18/3/2022 18:21:33*/  
137 {  
138   "_id" : ObjectId("6234bf9d540b06bf87de830a"),  
139   "title" : "The Great Train Robbery",  
140   "year" : 1900,  
141   "cast" : [ ],  
142   "genres" : [ ]  
143 },  
144  
145 /* 17 createdAt:18/3/2022 18:21:33*/  
146 {  
147   "_id" : ObjectId("6234bf9d540b06bf87de830b"),  
148   "title" : "The Great Train Robbery",  
149   "year" : 1900,  
150   "cast" : [ ],  
151   "genres" : [ ]  
152 },  
153  
154 /* 18 createdAt:18/3/2022 18:21:33*/  
155 {  
156   "_id" : ObjectId("6234bf9d540b06bf87de830c"),  
157   "title" : "The Great Train Robbery",  
158   "year" : 1900,  
159   "cast" : [ ],  
160   "genres" : [ ]  
161 },  
162  
163 /* 19 createdAt:18/3/2022 18:21:33*/  
164 {  
165   "_id" : ObjectId("6234bf9d540b06bf87de830d"),  
166   "title" : "The Great Train Robbery",  
167   "year" : 1900,  
168   "cast" : [ ],  
169   "genres" : [ ]  
170 },  
171  
172 /* 20 createdAt:18/3/2022 18:21:33*/  
173 {  
174   "_id" : ObjectId("6234bf9d540b06bf87de830e"),  
175   "title" : "The Great Train Robbery",  
176   "year" : 1900,  
177   "cast" : [ ],  
178   "genres" : [ ]  
179 },  
180  
181 /* 21 createdAt:18/3/2022 18:21:33*/  
182 {  
183   "_id" : ObjectId("6234bf9d540b06bf87de830f"),  
184   "title" : "The Great Train Robbery",  
185   "year" : 1900,  
186   "cast" : [ ],  
187   "genres" : [ ]  
188 },  
189  
190 /* 22 createdAt:18/3/2022 18:21:33*/  
191 {  
192   "_id" : ObjectId("6234bf9d540b06bf87de8310"),  
193   "title" : "The Great Train Robbery",  
194   "year" : 1900,  
195   "cast" : [ ],  
196   "genres" : [ ]  
197 },  
198  
199 /* 23 createdAt:18/3/2022 18:21:33*/  
200 {  
201   "_id" : ObjectId("6234bf9d540b06bf87de8311"),  
202   "title" : "The Great Train Robbery",  
203   "year" : 1900,  
204   "cast" : [ ],  
205   "genres" : [ ]  
206 },  
207  
208 /* 24 createdAt:18/3/2022 18:21:33*/  
209 {  
210   "_id" : ObjectId("6234bf9d540b06bf87de8312"),  
211   "title" : "The Great Train Robbery",  
212   "year" : 1900,  
213   "cast" : [ ],  
214   "genres" : [ ]  
215 },  
216  
217 /* 25 createdAt:18/3/2022 18:21:33*/  
218 {  
219   "_id" : ObjectId("6234bf9d540b06bf87de8313"),  
220   "title" : "The Great Train Robbery",  
221   "year" : 1900,  
222   "cast" : [ ],  
223   "genres" : [ ]  
224 },  
225  
226 /* 26 createdAt:18/3/2022 18:21:33*/  
227 {  
228   "_id" : ObjectId("6234bf9d540b06bf87de8314"),  
229   "title" : "The Great Train Robbery",  
230   "year" : 1900,  
231   "cast" : [ ],  
232   "genres" : [ ]  
233 },  
234  
235 /* 27 createdAt:18/3/2022 18:21:33*/  
236 {  
237   "_id" : ObjectId("6234bf9d540b06bf87de8315"),  
238   "title" : "The Great Train Robbery",  
239   "year" : 1900,  
240   "cast" : [ ],  
241   "genres" : [ ]  
242 },  
243  
244 /* 28 createdAt:18/3/2022 18:21:33*/  
245 {  
246   "_id" : ObjectId("6234bf9d540b06bf87de8316"),  
247   "title" : "The Great Train Robbery",  
248   "year" : 1900,  
249   "cast" : [ ],  
250   "genres" : [ ]  
251 },  
252  
253 /* 29 createdAt:18/3/2022 18:21:33*/  
254 {  
255   "_id" : ObjectId("6234bf9d540b06bf87de8317"),  
256   "title" : "The Great Train Robbery",  
257   "year" : 1900,  
258   "cast" : [ ],  
259   "genres" : [ ]  
260 },  
261  
262 /* 30 createdAt:18/3/2022 18:21:33*/  
263 {  
264   "_id" : ObjectId("6234bf9d540b06bf87de8318"),  
265   "title" : "The Great Train Robbery",  
266   "year" : 1900,  
267   "cast" : [ ],  
268   "genres" : [ ]  
269 },  
270  
271 /* 31 createdAt:18/3/2022 18:21:33*/  
272 {  
273   "_id" : ObjectId("6234bf9d540b06bf87de8319"),  
274   "title" : "The Great Train Robbery",  
275   "year" : 1900,  
276   "cast" : [ ],  
277   "genres" : [ ]  
278 },  
279  
280 /* 32 createdAt:18/3/2022 18:21:33*/  
281 {  
282   "_id" : ObjectId("6234bf9d540b06bf87de831a"),  
283   "title" : "The Great Train Robbery",  
284   "year" : 1900,  
285   "cast" : [ ],  
286   "genres" : [ ]  
287 },  
288  
289 /* 33 createdAt:18/3/2022 18:21:33*/  
290 {  
291   "_id" : ObjectId("6234bf9d540b06bf87de831b"),  
292   "title" : "The Great Train Robbery",  
293   "year" : 1900,  
294   "cast" : [ ],  
295   "genres" : [ ]  
296 },  
297  
298 /* 34 createdAt:18/3/2022 18:21:33*/  
299 {  
300   "_id" : ObjectId("6234bf9d540b06bf87de831c"),  
301   "title" : "The Great Train Robbery",  
302   "year" : 1900,  
303   "cast" : [ ],  
304   "genres" : [ ]  
305 },  
306  
307 /* 35 createdAt:18/3/2022 18:21:33*/  
308 {  
309   "_id" : ObjectId("6234bf9d540b06bf87de831d"),  
310   "title" : "The Great Train Robbery",  
311   "year" : 1900,  
312   "cast" : [ ],  
313   "genres" : [ ]  
314 },  
315  
316 /* 36 createdAt:18/3/2022 18:21:33*/  
317 {  
318   "_id" : ObjectId("6234bf9d540b06bf87de831e"),  
319   "title" : "The Great Train Robbery",  
320   "year" : 1900,  
321   "cast" : [ ],  
322   "genres" : [ ]  
323 },  
324  
325 /* 37 createdAt:18/3/2022 18:21:33*/  
326 {  
327   "_id" : ObjectId("6234bf9d540b06bf87de831f"),  
328   "title" : "The Great Train Robbery",  
329   "year" : 1900,  
330   "cast" : [ ],  
331   "genres" : [ ]  
332 },  
333  
334 /* 38 createdAt:18/3/2022 18:21:33*/  
335 {  
336   "_id" : ObjectId("6234bf9d540b06bf87de8320"),  
337   "title" : "The Great Train Robbery",  
338   "year" : 1900,  
339   "cast" : [ ],  
340   "genres" : [ ]  
341 },  
342  
343 /* 39 createdAt:18/3/2022 18:21:33*/  
344 {  
345   "_id" : ObjectId("6234bf9d540b06bf87de8321"),  
346   "title" : "The Great Train Robbery",  
347   "year" : 1900,  
348   "cast" : [ ],  
349   "genres" : [ ]  
350 },  
351  
352 /* 40 createdAt:18/3/2022 18:21:33*/  
353 {  
354   "_id" : ObjectId("6234bf9d540b06bf87de8322"),  
355   "title" : "The Great Train Robbery",  
356   "year" : 1900,  
357   "cast" : [ ],  
358   "genres" : [ ]  
359 },  
360  
361 /* 41 createdAt:18/3/2022 18:21:33*/  
362 {  
363   "_id" : ObjectId("6234bf9d540b06bf87de8323"),  
364   "title" : "The Great Train Robbery",  
365   "year" : 1900,  
366   "cast" : [ ],  
367   "genres" : [ ]  
368 },  
369  
370 /* 42 createdAt:18/3/2022 18:21:33*/  
371 {  
372   "_id" : ObjectId("6234bf9d540b06bf87de8324"),  
373   "title" : "The Great Train Robbery",  
374   "year" : 1900,  
375   "cast" : [ ],  
376   "genres" : [ ]  
377 },  
378  
379 /* 43 createdAt:18/3/2022 18:21:33*/  
380 {  
381   "_id" : ObjectId("6234bf9d540b06bf87de8325"),  
382   "title" : "The Great Train Robbery",  
383   "year" : 1900,  
384   "cast" : [ ],  
385   "genres" : [ ]  
386 },  
387  
388 /* 44 createdAt:18/3/2022 18:21:33*/  
389 {  
390   "_id" : ObjectId("6234bf9d540b06bf87de8326"),  
391   "title" : "The Great Train Robbery",  
392   "year" : 1900,  
393   "cast" : [ ],  
394   "genres" : [ ]  
395 },  
396  
397 /* 45 createdAt:18/3/2022 18:21:33*/  
398 {  
399   "_id" : ObjectId("6234bf9d540b06bf87de8327"),  
400   "title" : "The Great Train Robbery",  
401   "year" : 1900,  
402   "cast" : [ ],  
403   "genres" : [ ]  
404 },  
405  
406 /* 46 createdAt:18/3/2022 18:21:33*/  
407 {  
408   "_id" : ObjectId("6234bf9d540b06bf87de8328"),  
409   "title" : "The Great Train Robbery",  
410   "year" : 1900,  
411   "cast" : [ ],  
412   "genres" : [ ]  
413 },  
414  
415 /* 47 createdAt:18/3/2022 18:21:33*/  
416 {  
417   "_id" : ObjectId("6234bf9d540b06bf87de8329"),  
418   "title" : "The Great Train Robbery",  
419   "year" : 1900,  
420   "cast" : [ ],  
421   "genres" : [ ]  
422 },  
423  
424 /* 48 createdAt:18/3/2022 18:21:33*/  
425 {  
426   "_id" : ObjectId("6234bf9d540b06bf87de832a"),  
427   "title" : "The Great Train Robbery",  
428   "year" : 1900,  
429   "cast" : [ ],  
430   "genres" : [ ]  
431 },  
432  
433 /* 49 createdAt:18/3/2022 18:21:33*/  
434 {  
435   "_id" : ObjectId("6234bf9d540b06bf87de832b"),  
436   "title" : "The Great Train Robbery",  
437   "year" : 1900,  
438   "cast" : [ ],  
439   "genres" : [ ]  
440 },  
441  
442 /* 50 createdAt:18/3/2022 18:21:33*/  
443 {  
444   "_id" : ObjectId("6234bf9d540b06bf87de832c"),  
445   "title" : "The Great Train Robbery",  
446   "year" : 1900,  
447   "cast" : [ ],  
448   "genres" : [ ]  
449 },  
450  
451 /* 51 createdAt:18/3/2022 18:21:33*/  
452 {  
453   "_id" : ObjectId("6234bf9d540b06bf87de832d"),  
454   "title" : "The Great Train Robbery",  
455   "year" : 1900,  
456   "cast" : [ ],  
457   "genres" : [ ]  
458 },  
459  
460 /* 52 createdAt:18/3/2022 18:21:33*/  
461 {  
462   "_id" : ObjectId("6234bf9d540b06bf87de832e"),  
463   "title" : "The Great Train Robbery",  
464   "year" : 1900,  
465   "cast" : [ ],  
466   "genres" : [ ]  
467 },  
468  
469 /* 53 createdAt:18/3/2022 18:21:33*/  
470 {  
471   "_id" : ObjectId("6234bf9d540b06bf87de832f"),  
472   "title" : "The Great Train Robbery",  
473   "year" : 1900,  
474   "cast" : [ ],  
475   "genres" : [ ]  
476 },  
477  
478 /* 54 createdAt:18/3/2022 18:21:33*/  
479 {  
480   "_id" : ObjectId("6234bf9d540b06bf87de8330"),  
481   "title" : "The Great Train Robbery",  
482   "year" : 1900,  
483   "cast" : [ ],  
484   "genres" : [ ]  
485 },  
486  
487 /* 55 createdAt:18/3/2022 18:21:33*/  
488 {  
489   "_id" : ObjectId("6234bf9d540b06bf87de8331"),  
490   "title" : "The Great Train Robbery",  
491   "year" : 1900,  
492   "cast" : [ ],  
493   "genres" : [ ]  
494 },  
495  
496 /* 56 createdAt:18/3/2022 18:21:33*/  
497 {  
498   "_id" : ObjectId("6234bf9d540b06bf87de8332"),  
499   "title" : "The Great Train Robbery",  
500   "year" : 1900,  
501   "cast" : [ ],  
502   "genres" : [ ]  
503 },  
504  
505 /* 57 createdAt:18/3/2022 18:21:33*/  
506 {  
507   "_id" : ObjectId("6234bf9d540b06bf87de8333"),  
508   "title" : "The Great Train Robbery",  
509   "year" : 1900,  
510   "cast" : [ ],  
511   "genres" : [ ]  
512 },  
513  
514 /* 58 createdAt:18/3/2022 18:21:33*/  
515 {  
516   "_id" : ObjectId("6234bf9d540b06bf87de8334"),  
517   "title" : "The Great Train Robbery",  
518   "year" : 1900,  
519   "cast" : [ ],  
520   "genres" : [ ]  
521 },  
522  
523 /* 59 createdAt:18/3/2022 18:21:33*/  
524 {  
525   "_id" : ObjectId("6234bf9d540b06bf87de8335"),  
526   "title" : "The Great Train Robbery",  
527   "year" : 1900,  
528   "cast" : [ ],  
529   "genres" : [ ]  
530 },  
531  
532 /* 60 createdAt:18/3/2022 18:21:33*/  
533 {  
534   "_id" : ObjectId("6234bf9d540b06bf87de8336"),  
535   "title" : "The Great Train Robbery",  
536   "year" : 1900,  
537   "cast" : [ ],  
538   "genres" : [ ]  
539 },  
540  
541 /* 61 createdAt:18/3/2022 18:21:33*/  
542 {  
543   "_id" : ObjectId("6234bf9d540b06bf87de8337"),  
544   "title" : "The Great Train Robbery",  
545   "year" : 1900,  
546   "cast" : [ ],  
547   "genres" : [ ]  
548 },  
549  
550 /* 62 createdAt:18/3/2022 18:21:33*/  
551 {  
552   "_id" : ObjectId("6234bf9d540b06bf87de8338"),  
553   "title" : "The Great Train Robbery",  
554   "year" : 1900,  
555   "cast" : [ ],  
556   "genres" : [ ]  
557 },  
558  
559 /* 63 createdAt:18/3/2022 18:21:33*/  
560 {  
561   "_id" : ObjectId("6234bf9d540b06bf87de8339"),  
562   "title" : "The Great Train Robbery",  
563   "year" : 1900,  
564   "cast" : [ ],  
565   "genres" : [ ]  
566 },  
567  
568 /* 64 createdAt:18/3/2022 18:21:33*/  
569 {  
570   "_id" : ObjectId("6234bf9d540b06bf87de833a"),  
571   "title" : "The Great Train Robbery",  
572   "year" : 1900,  
573   "cast" : [ ],  
574   "genres" : [ ]  
575 },  
576  
577 /* 65 createdAt:18/3/2022 18:21:33*/  
578 {  
579   "_id" : ObjectId("6234bf9d540b06bf87de833b"),  
580   "title" : "The Great Train Robbery",  
581   "year" : 1900,  
582   "cast" : [ ],  
583   "genres" : [ ]  
584 },  
585  
586 /* 66 createdAt:18/3/2022 18:21:33*/  
587 {  
588   "_id" : ObjectId("6234bf9d540b06bf87de833c"),  
589   "title" : "The Great Train Robbery",  
590   "year" : 1900,  
591   "cast" : [ ],  
592   "genres" : [ ]  
593 },  
594  
595 /* 67 createdAt:18/3/2022 18:21:33*/  
596 {  
597   "_id" : ObjectId("6234bf9d540b06bf87de833d"),  
598   "title" : "The Great Train Robbery",  
599   "year" : 1900,  
600   "cast" : [ ],  
601   "genres" : [ ]  
602 },  
603  
604 /* 68 createdAt:18/3/2022 18:21:33*/  
605 {  
606   "_id" : ObjectId("6234bf9d540b06bf87de833e"),  
607   "title" : "The Great Train Robbery",  
608   "year" : 1900,  
609   "cast" : [ ],  
610   "genres" : [ ]  
611 },  
612  
613 /* 69 createdAt:18/3/2022 18:21:33*/  
614 {  
615   "_id" : ObjectId("6234bf9d540b06bf87de833f"),  
616   "title" : "The Great Train Robbery",  
617   "year" : 1900,  
618   "cast" : [ ],  
619   "genres" : [ ]  
620 },  
621  
622 /* 70 createdAt:18/3/2022 18:21:33*/  
623 {  
624   "_id" : ObjectId("6234bf9d540b06bf87de8340"),  
625   "title" : "The Great Train Robbery",  
626   "year" : 1900,  
627   "cast" : [ ],  
628   "genres" : [ ]  
629 },  
630  
631 /* 71 createdAt:18/3/2022 18:21:33*/  
632 {  
633   "_id" : ObjectId("6234bf9d540b06bf87de8341"),  
634   "title" : "The Great Train Robbery",  
635   "year" : 1900,  
636   "cast" : [ ],  
637   "genres" : [ ]  
638 },  
639  
640 /* 72 createdAt:18/3/2022 18:21:33*/  
641 {  
642   "_id" : ObjectId("6234bf9d540b06bf87de8342"),  
643   "title" : "The Great Train Robbery",  
644   "year" : 1900,  
645   "cast" : [ ],  
646   "genres" : [ ]  
647 },  
648  
649 /* 73 createdAt:18/3/2022 18:21:33*/  
650 {  
651   "_id" : ObjectId("6234bf9d540b06bf87de8343"),  
652   "title" : "The Great Train Robbery",  
653   "year" : 1900,  
654   "cast" : [ ],  
655   "genres" : [ ]  
656 },  
657  
658 /* 74 createdAt:18/3/2022 18:21:33*/  
659 {  
660   "_id" : ObjectId("6234bf9d540b06bf87de8344"),  
661   "title" : "The Great Train Robbery",  
662   "year" : 1900,  
663   "cast" : [ ],  
664   "genres" : [ ]  
665 },  
666  
667 /* 75 createdAt:18/3/2022 18:21:33*/  
668 {  
669   "_id" : ObjectId("6234bf9d540b06bf87de8345"),  
670   "title" : "The Great Train Robbery",  
671   "year" : 1900,  
672   "cast" : [ ],  
673   "genres" : [ ]  
674 },  
675  
676 /* 76 createdAt:18/3/2022 18:21:33*/  
677 {  
678   "_id" : ObjectId("6234bf9d540b06bf87de8346"),  
679   "title" : "The Great Train Robbery",  
680   "year" : 1900,  
681   "cast" : [ ],  
682   "genres" : [ ]  
683 },  
684  
685 /* 77 createdAt:18/3/2022 18:21:33*/  
686 {  
687   "_id" : ObjectId("6234bf9d540b06bf87de8347"),  
688   "title" : "The Great Train Robbery",  
689   "year" : 1900,  
690   "cast" : [ ],  
691   "genres" : [ ]  
692 },  
693  
694 /* 78 createdAt:18/3/2022 18:21:33*/  
695 {  
696   "_id" : ObjectId("6234bf9d540b06bf87de8348"),  
697   "title" : "The Great Train Robbery",  
698   "year" : 1900,  
699   "cast" : [ ],  

```

2. Contar cuántos documentos (películas) tiene cargado.

```
db.movies.find().count()
```

0.030 s

1	28795
---	-------

3. Insertar una película.

```
item = {title : "Nueva peli"}
```

```
db.movies.insert(item)
```

```
db.movies.find(item)
```

0.026 s

1	WriteResult({
2	"nInserted" : 1
3	})

movies 0.060 s 1 Doc

	_id	title
1	623883cdebe28522f6c0	Nueva peli

4. Borrar la película insertada en el punto anterior (en el 3).

```
db.movies.remove({'title':'Nueva peli'})
```

```
db.movies.find(item)
```

WriteResult({

"nRemoved" : 1

})

movies 0.103 s 0 Doc

No records found

5. Contar cuantas películas tienen actores (cast) que se llaman “and”. Estos nombres de actores están por ERROR.

```
var actores = {"cast": "and"}
```

```
db.movies.find(actores).count()
```

0.168 s

1	93
---	----

6. Actualizar los documentos cuyo actor (cast) tenga por error el valor “and” como si realmente fuera un actor. Para ello, se debe sacar únicamente ese valor del array cast. Por lo tanto, no se debe eliminar ni el documento (película) ni su array cast con el resto de actores.

```
db.movies.updateMany({"cast": "and"}, { $pull: { "cast": "and" } })
```

0.062 s

Key	Value	Type
(1)	{ acknowledged : true, matchedCount : 93, modifiedCount : 93 }	Object
acknowledged	true	Bool
matchedCount	93	Int32
modifiedCount	93	Int32

7. Contar cuantos documentos (películas) no tienen actores (array cast).

```
var query = {"cast": {$size: 0}}
db.movies.find(query).count()
```

0.119 s
1 986

8. Actualizar TODOS los documentos (películas) que no tengan actores (array cast), añadiendo un nuevo elemento dentro del array con valor Undefined. Cuidado! El tipo de cast debe seguir siendo un array. El array debe ser así -> ["Undefined"].

```
db.movies.updateMany({"cast": {$size: 0}}, { $push: { "cast": {$each: ["Undefined"]} }})
db.movies.find({"cast": "Undefined"})
```

0.112 s
1 {
2 "acknowledged" : true,
3 "matchedCount" : 986,
4 "modifiedCount" : 986
5 }

1 /* 1 createdAt:22/3/2022 17:34:49*/
2 {
3 "_id" : ObjectId("6239faa9b5836f9d40c913be"),
4 "title" : "Caught",
5 "year" : 1900,
6 "cast" : ["Undefined"],
7 "genres" : []
8 },

9. Contar cuantos documentos (películas) no tienen Género (array genres).

```
var query = {"genres"{$size: 0}}
db.movies.find(query).count()
```

0.184 s
1 901

10. Actualizar TODOS los documentos (películas) que no tengan géneros (array genres), añadiendo un nuevo elemento dentro del array con valor Undefined. Cuidado! El tipo de genres debe seguir siendo un array. El array debe ser así -> ["Undefined"].

```
db.movies.updateMany({"genres"{$size: 0}}, { $push: { "genres":{$each: ["Undefined"]} }})
db.movies.find({"genres": "Undefined"})
```

```

0.109 s
1 {
2   "acknowledged" : true,
3   "matchedCount" : 901,
4   "modifiedCount" : 901
5 }

```

```

/* 1 createdAt:22/3/2022 17:34:49*/
2 {
3   "_id" : ObjectId("6239faa9b5836f9d40c913be"),
4   "title" : "Caught",
5   "year" : 1900,
6   "cast" : [ "Undefined" ],
7   "genres" : [ "Undefined" ]
8 },

```

11. Mostrar el año más reciente / actual que tenemos sobre todas las películas.

```

db.movies.aggregate([
  {
    $project:{_id:null,"year":-1}
  },
  {
    $sort:{"year":-1}
  },
  {
    $limit:1
  }
])

```

```

movies 0.088 s 1 Doc
1 {
2   "year" : 2018,
3   "_id" : null
4 }

```

12. Contar cuántas películas han salido en los últimos 20 años. Debe hacerse desde el último año que se tienen registradas películas en la colección, mostrando el resultado total de esos años. Se debe hacer con el Framework de Agregación.

El periodo que comprende es entre 1998-2008

```

db.movies.aggregate([
  {
    $match: {
      $and: [
        {"year": {$gte: 1999}},
        {"year": {$lte: 2018}}
      ]
    }
  },
  {
    $group: {
      _id: null,
      count: {$sum: 1}
    }
  }
])

```

```

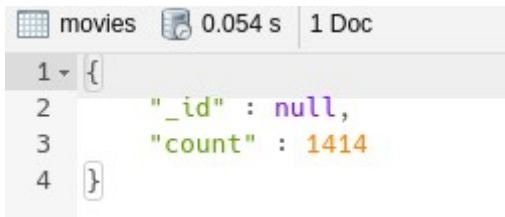
movies 0.066 s 1 Doc
1 {
2   "_id" : null,
3   "count" : 4787
4 }

```

13. Contar cuántas películas han salido en la década de los 60 (del 60 al 69 incluidos). Se debe hacer con el Framework de Agregación.

db.movies.aggregate([

```
{
  $match: {
    $and: [
      {"year": {$gte: 1960}},
      {"year": {$lte: 1969}}
    ]
  },
  {
    $group: {
      _id: null,
      count: {$sum: 1}
    }
  }
])
```



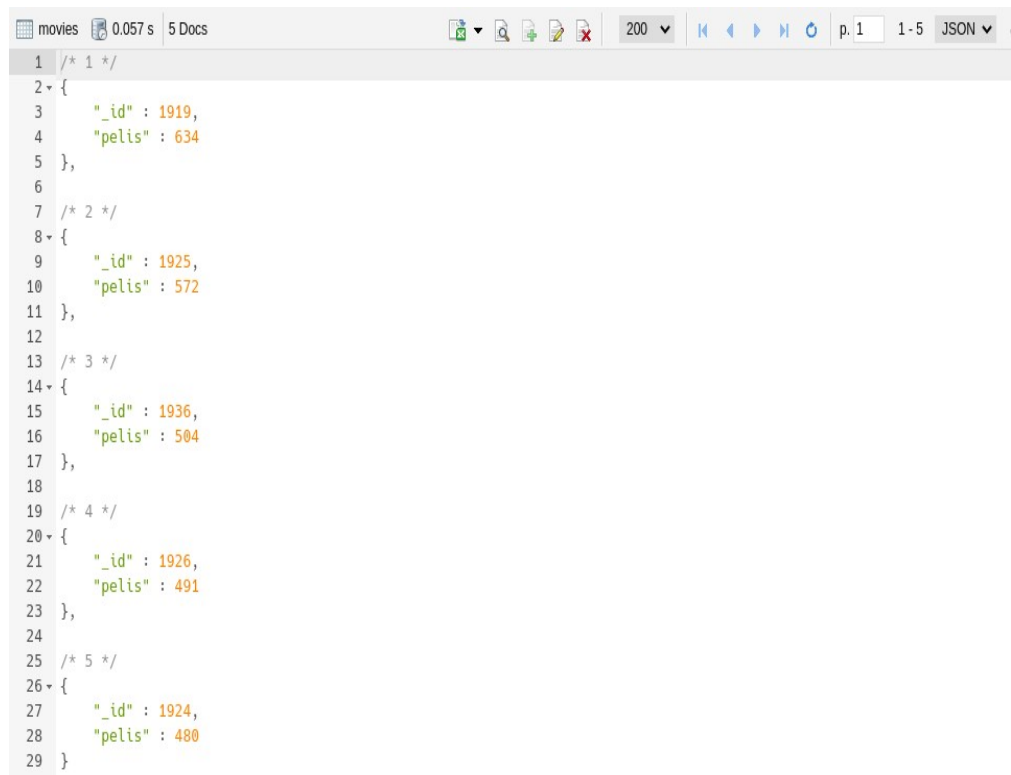
14. Mostrar el año u años con más películas mostrando el número de películas de ese año.

Revisar si varios años pueden compartir tener el mayor número de películas.

Para revisar si hay varios años que comparten el mayor número de películas, se ha filtrado mediante sort y al no haber ninguna repetida, se ha hecho un limit(5) para ver las 5 primeras.

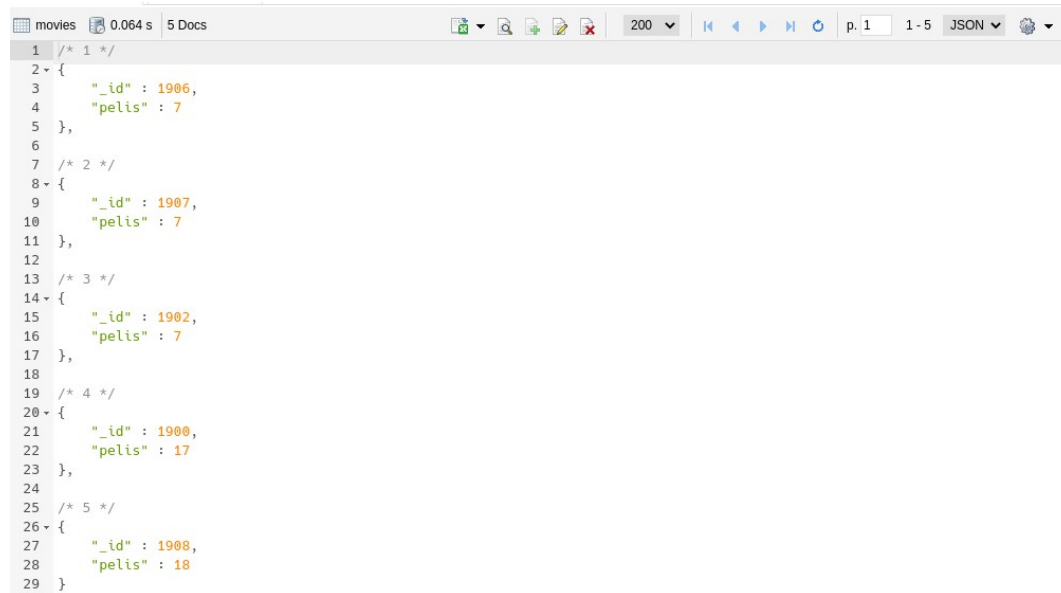
db.movies.aggregate([

```
{
  $unwind: "$year"
},
{
  $group: {
    _id: "$year",
    "pelis": {$sum: 1}
  }
},
{
  $sort: {"pelis": -1}
},
{
  $limit: 5
}
])
```



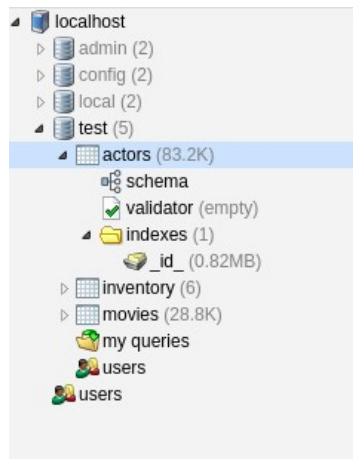
15. Mostrar el año u años con menos películas mostrando el número de películas de ese año. Revisar si varios años pueden compartir tener el menor número de películas.

```
db.movies.aggregate([
  {
    $unwind: "$year"
  },
  {
    $group: {
      _id: "$year",
      "pelis": { $sum: 1 }
    }
  },
  {
    $sort: {"pelis": 1}
  },
  {
    $limit: 5
  }
])
```



16. Guardar en nueva colección llamada “actors” realizando la fase \$unwind por actor. Después, contar cuantos documentos existen en la nueva colección.

```
db.movies.aggregate([
  {
    $unwind: "$cast"
  },
  {
    $project: {"_id": 0}
  },
  {
    $out: "actors"
  }
])
```



```
db.actors.find().count()
```



17. Sobre actors (nueva colección), mostrar la lista con los 5 actores que han participado en más películas mostrando el número de películas en las que ha participado. Importante! Se necesita previamente filtrar para descartar aquellos actores llamados "Undefined". Aclarar que no se eliminan de la colección, sólo que filtramos para que no aparezcan.

```
db.actors.aggregate([
  {
```



```

    $unwind: "$cast"
  },
  {
    $match: {
      "cast": {
        {
          $ne: "Undefined"
        }
      }
    },
    {
      $group: {
        _id: "$cast",
        "cuenta": { $sum: 1 }
      }
    },
    {
      $sort: { "cuenta": -1 }
    },
    {
      $limit: 5
    }
  }
])

```

```

1  /* 1 */
2  {
3    "_id" : "Harold Lloyd",
4    "cuenta" : 190
5  },
6
7  /* 2 */
8  {
9    "_id" : "Hoot Gibson",
10   "cuenta" : 142
11 },
12
13 /* 3 */
14 {
15   "_id" : "John Wayne",
16   "cuenta" : 136
17 },
18
19 /* 4 */
20 {
21   "_id" : "Charles Starrett",
22   "cuenta" : 116
23 },
24
25 /* 5 */
26 {
27   "_id" : "Bebe Daniels",
28   "cuenta" : 103
29 }

```

18. Sobre actors (nueva colección), agrupar por película y año mostrando las 5 en las que más actores hayan participado, mostrando el número total de actores.

```

db.actors.aggregate([
  {
    $group: {
      _id: {title: "$title", year: "$year"},
      actores: { $sum: 1 }
    }
  },
  {
    $sort: { "actores": -1 }
  },
  {
    $limit: 5
  }
])

```

```

actors 0.338 s 5 Docs
1  /* 1 */
2  {
3    "_id" : {
4      "title" : "The Twilight Saga: Breaking Dawn - Part 2",
5      "year" : 2012
6    },
7    "actores" : 35
8  },
9
10 /* 2 */
11 {
12   "_id" : {
13     "title" : "Anchorman 2: The Legend Continues",
14     "year" : 2013
15   },
16   "actores" : 33
17 },
18
19 /* 3 */
20 {
21   "_id" : {
22     "title" : "Cars 2",
23     "year" : 2011
24   },
25   "actores" : 29
26 },
27
28 /* 4 */
29 {
30   "_id" : {
31     "title" : "Avengers: Infinity War",
32     "year" : 2018
33   },
34   "actores" : 28
35 },
36
37 /* 5 */
38 {
39   "_id" : {
40     "title" : "Grown Ups 2",
41     "year" : 2013
42   },
43   "actores" : 28
44 },
45
46 /* 6 */
47 {
48   "_id" : {
49     "title" : "The Hangover Part II",
50     "year" : 2011
51   },
52   "actores" : 27
53 },
54
55 /* 7 */
56 {
57   "_id" : {
58     "title" : "The Hangover",
59     "year" : 2009
60   },
61   "actores" : 26
62 },
63
64 /* 8 */
65 {
66   "_id" : {
67     "title" : "The Hangover Part III",
68     "year" : 2013
69   },
70   "actores" : 25
71 },
72
73 /* 9 */
74 {
75   "_id" : {
76     "title" : "The Hangover Part IV",
77     "year" : 2014
78   },
79   "actores" : 24
80 },
81
82 /* 10 */
83 {
84   "_id" : {
85     "title" : "The Hangover Part V",
86     "year" : 2015
87   },
88   "actores" : 23
89 },
90
91 /* 11 */
92 {
93   "_id" : {
94     "title" : "The Hangover Part VI",
95     "year" : 2016
96   },
97   "actores" : 22
98 },
99
100 /* 12 */
101 {
102   "_id" : {
103     "title" : "The Hangover Part VII",
104     "year" : 2017
105   },
106   "actores" : 21
107 },
108
109 /* 13 */
110 {
111   "_id" : {
112     "title" : "The Hangover Part VIII",
113     "year" : 2018
114   },
115   "actores" : 20
116 },
117
118 /* 14 */
119 {
120   "_id" : {
121     "title" : "The Hangover Part IX",
122     "year" : 2019
123   },
124   "actores" : 19
125 },
126
127 /* 15 */
128 {
129   "_id" : {
130     "title" : "The Hangover Part X",
131     "year" : 2020
132   },
133   "actores" : 18
134 },
135
136 /* 16 */
137 {
138   "_id" : {
139     "title" : "The Hangover Part XI",
140     "year" : 2021
141   },
142   "actores" : 17
143 },
144
145 /* 17 */
146 {
147   "_id" : {
148     "title" : "The Hangover Part XII",
149     "year" : 2022
150   },
151   "actores" : 16
152 },
153
154 /* 18 */
155 {
156   "_id" : {
157     "title" : "The Hangover Part XIII",
158     "year" : 2023
159   },
160   "actores" : 15
161 },
162
163 /* 19 */
164 {
165   "_id" : {
166     "title" : "The Hangover Part XIV",
167     "year" : 2024
168   },
169   "actores" : 14
170 },
171
172 /* 20 */
173 {
174   "_id" : {
175     "title" : "The Hangover Part XV",
176     "year" : 2025
177   },
178   "actores" : 13
179 },
180
181 /* 21 */
182 {
183   "_id" : {
184     "title" : "The Hangover Part XVI",
185     "year" : 2026
186   },
187   "actores" : 12
188 },
189
190 /* 22 */
191 {
192   "_id" : {
193     "title" : "The Hangover Part XVII",
194     "year" : 2027
195   },
196   "actores" : 11
197 },
198
199 /* 23 */
200 {
201   "_id" : {
202     "title" : "The Hangover Part XVIII",
203     "year" : 2028
204   },
205   "actores" : 10
206 },
207
208 /* 24 */
209 {
210   "_id" : {
211     "title" : "The Hangover Part XIX",
212     "year" : 2029
213   },
214   "actores" : 9
215 },
216
217 /* 25 */
218 {
219   "_id" : {
220     "title" : "The Hangover Part XX",
221     "year" : 2030
222   },
223   "actores" : 8
224 },
225
226 /* 26 */
227 {
228   "_id" : {
229     "title" : "The Hangover Part XXI",
230     "year" : 2031
231   },
232   "actores" : 7
233 },
234
235 /* 27 */
236 {
237   "_id" : {
238     "title" : "The Hangover Part XXII",
239     "year" : 2032
240   },
241   "actores" : 6
242 },
243
244 /* 28 */
245 {
246   "_id" : {
247     "title" : "The Hangover Part XXIII",
248     "year" : 2033
249   },
250   "actores" : 5
251 },
252
253 /* 29 */
254 {
255   "_id" : {
256     "title" : "The Hangover Part XXIV",
257     "year" : 2034
258   },
259   "actores" : 4
260 },
261
262 /* 30 */
263 {
264   "_id" : {
265     "title" : "The Hangover Part XXV",
266     "year" : 2035
267   },
268   "actores" : 3
269 },
270
271 /* 31 */
272 {
273   "_id" : {
274     "title" : "The Hangover Part XXVI",
275     "year" : 2036
276   },
277   "actores" : 2
278 },
279
280 /* 32 */
281 {
282   "_id" : {
283     "title" : "The Hangover Part XXVII",
284     "year" : 2037
285   },
286   "actores" : 1
287 },
288
289 /* 33 */
290 {
291   "_id" : {
292     "title" : "The Hangover Part XXVIII",
293     "year" : 2038
294   },
295   "actores" : 0
296 },
297
298 /* 34 */
299 {
300   "_id" : {
301     "title" : "The Hangover Part XXIX",
302     "year" : 2039
303   },
304   "actores" : 0
305 },
306
307 /* 35 */
308 {
309   "_id" : {
310     "title" : "The Hangover Part XXX",
311     "year" : 2040
312   },
313   "actores" : 0
314 },
315
316 /* 36 */
317 {
318   "_id" : {
319     "title" : "The Hangover Part XXXI",
320     "year" : 2041
321   },
322   "actores" : 0
323 },
324
325 /* 37 */
326 {
327   "_id" : {
328     "title" : "The Hangover Part XXXII",
329     "year" : 2042
330   },
331   "actores" : 0
332 },
333
334 /* 38 */
335 {
336   "_id" : {
337     "title" : "The Hangover Part XXXIII",
338     "year" : 2043
339   },
340   "actores" : 0
341 },
342
343 /* 39 */
344 {
345   "_id" : {
346     "title" : "The Hangover Part XXXIV",
347     "year" : 2044
348   },
349   "actores" : 0
350 },
351
352 /* 40 */
353 {
354   "_id" : {
355     "title" : "The Hangover Part XXXV",
356     "year" : 2045
357   },
358   "actores" : 0
359 },
360
361 /* 41 */
362 {
363   "_id" : {
364     "title" : "The Hangover Part XXXVI",
365     "year" : 2046
366   },
367   "actores" : 0
368 },
369
370 /* 42 */
371 {
372   "_id" : {
373     "title" : "The Hangover Part XXXVII",
374     "year" : 2047
375   },
376   "actores" : 0
377 },
378
379 /* 43 */
380 {
381   "_id" : {
382     "title" : "The Hangover Part XXXVIII",
383     "year" : 2048
384   },
385   "actores" : 0
386 },
387
388 /* 44 */
389 {
390   "_id" : {
391     "title" : "The Hangover Part XXXIX",
392     "year" : 2049
393   },
394   "actores" : 0
395 },
396
397 /* 45 */
398 {
399   "_id" : {
400     "title" : "The Hangover Part XL",
401     "year" : 2050
402   },
403   "actores" : 0
404 },
405
406 /* 46 */
407 {
408   "_id" : {
409     "title" : "The Hangover Part XLI",
410     "year" : 2051
411   },
412   "actores" : 0
413 },
414
415 /* 47 */
416 {
417   "_id" : {
418     "title" : "The Hangover Part XLII",
419     "year" : 2052
420   },
421   "actores" : 0
422 },
423
424 /* 48 */
425 {
426   "_id" : {
427     "title" : "The Hangover Part XLIII",
428     "year" : 2053
429   },
430   "actores" : 0
431 },
432
433 /* 49 */
434 {
435   "_id" : {
436     "title" : "The Hangover Part XLIV",
437     "year" : 2054
438   },
439   "actores" : 0
440 },
441
442 /* 50 */
443 {
444   "_id" : {
445     "title" : "The Hangover Part XLV",
446     "year" : 2055
447   },
448   "actores" : 0
449 },
450
451 /* 51 */
452 {
453   "_id" : {
454     "title" : "The Hangover Part XLVI",
455     "year" : 2056
456   },
457   "actores" : 0
458 },
459
460 /* 52 */
461 {
462   "_id" : {
463     "title" : "The Hangover Part XLVII",
464     "year" : 2057
465   },
466   "actores" : 0
467 },
468
469 /* 53 */
470 {
471   "_id" : {
472     "title" : "The Hangover Part XLVIII",
473     "year" : 2058
474   },
475   "actores" : 0
476 },
477
478 /* 54 */
479 {
480   "_id" : {
481     "title" : "The Hangover Part XLIX",
482     "year" : 2059
483   },
484   "actores" : 0
485 },
486
487 /* 55 */
488 {
489   "_id" : {
490     "title" : "The Hangover Part L",
491     "year" : 2060
492   },
493   "actores" : 0
494 },
495
496 /* 56 */
497 {
498   "_id" : {
499     "title" : "The Hangover Part LI",
500     "year" : 2061
501   },
502   "actores" : 0
503 },
504
505 /* 57 */
506 {
507   "_id" : {
508     "title" : "The Hangover Part LII",
509     "year" : 2062
510   },
511   "actores" : 0
512 },
513
514 /* 58 */
515 {
516   "_id" : {
517     "title" : "The Hangover Part LIII",
518     "year" : 2063
519   },
520   "actores" : 0
521 },
522
523 /* 59 */
524 {
525   "_id" : {
526     "title" : "The Hangover Part LIV",
527     "year" : 2064
528   },
529   "actores" : 0
530 },
531
532 /* 60 */
533 {
534   "_id" : {
535     "title" : "The Hangover Part LV",
536     "year" : 2065
537   },
538   "actores" : 0
539 },
540
541 /* 61 */
542 {
543   "_id" : {
544     "title" : "The Hangover Part LVI",
545     "year" : 2066
546   },
547   "actores" : 0
548 },
549
550 /* 62 */
551 {
552   "_id" : {
553     "title" : "The Hangover Part LVII",
554     "year" : 2067
555   },
556   "actores" : 0
557 },
558
559 /* 63 */
560 {
561   "_id" : {
562     "title" : "The Hangover Part LVIII",
563     "year" : 2068
564   },
565   "actores" : 0
566 },
567
568 /* 64 */
569 {
570   "_id" : {
571     "title" : "The Hangover Part LIX",
572     "year" : 2069
573   },
574   "actores" : 0
575 },
576
577 /* 65 */
578 {
579   "_id" : {
580     "title" : "The Hangover Part LX",
581     "year" : 2070
582   },
583   "actores" : 0
584 },
585
586 /* 66 */
587 {
588   "_id" : {
589     "title" : "The Hangover Part LXI",
590     "year" : 2071
591   },
592   "actores" : 0
593 },
594
595 /* 67 */
596 {
597   "_id" : {
598     "title" : "The Hangover Part LXII",
599     "year" : 2072
600   },
601   "actores" : 0
602 },
603
604 /* 68 */
605 {
606   "_id" : {
607     "title" : "The Hangover Part LXIII",
608     "year" : 2073
609   },
610   "actores" : 0
611 },
612
613 /* 69 */
614 {
615   "_id" : {
616     "title" : "The Hangover Part LXIV",
617     "year" : 2074
618   },
619   "actores" : 0
620 },
621
622 /* 70 */
623 {
624   "_id" : {
625     "title" : "The Hangover Part LXV",
626     "year" : 2075
627   },
628   "actores" : 0
629 },
630
631 /* 71 */
632 {
633   "_id" : {
634     "title" : "The Hangover Part LXVI",
635     "year" : 2076
636   },
637   "actores" : 0
638 },
639
640 /* 72 */
641 {
642   "_id" : {
643     "title" : "The Hangover Part LXVII",
644     "year" : 2077
645   },
646   "actores" : 0
647 },
648
649 /* 73 */
650 {
651   "_id" : {
652     "title" : "The Hangover Part LXVIII",
653     "year" : 2078
654   },
655   "actores" : 0
656 },
657
658 /* 74 */
659 {
660   "_id" : {
661     "title" : "The Hangover Part LXIX",
662     "year" : 2079
663   },
664   "actores" : 0
665 },
666
667 /* 75 */
668 {
669   "_id" : {
670     "title" : "The Hangover Part LXX",
671     "year" : 2080
672   },
673   "actores" : 0
674 },
675
676 /* 76 */
677 {
678   "_id" : {
679     "title" : "The Hangover Part LXXI",
680     "year" : 2081
681   },
682   "actores" : 0
683 },
684
685 /* 77 */
686 {
687   "_id" : {
688     "title" : "The Hangover Part LXXII",
689     "year" : 2082
690   },
691   "actores" : 0
692 },
693
694 /* 78 */
695 {
696   "_id" : {
697     "title" : "The Hangover Part LXXIII",
698     "year" : 2083
699   },
700   "actores" : 0
701 },
702
703 /* 79 */
704 {
705   "_id" : {
706     "title" : "The Hangover Part LXXIV",
707     "year" : 2084
708   },
709   "actores" : 0
710 },
711
712 /* 80 */
713 {
714   "_id" : {
715     "title" : "The Hangover Part LXXV",
716     "year" : 2085
717   },
718   "actores" : 0
719 },
720
721 /* 81 */
722 {
723   "_id" : {
724     "title" : "The Hangover Part LXXVI",
725     "year" : 2086
726   },
727   "actores" : 0
728 },
729
730 /* 82 */
731 {
732   "_id" : {
733     "title" : "The Hangover Part LXXVII",
734     "year" : 2087
735   },
736   "actores" : 0
737 },
738
739 /* 83 */
740 {
741   "_id" : {
742     "title" : "The Hangover Part LXXVIII",
743     "year" : 2088
744   },
745   "actores" : 0
746 },
747
748 /* 84 */
749 {
750   "_id" : {
751     "title" : "The Hangover Part LXXIX",
752     "year" : 2089
753   },
754   "actores" : 0
755 },
756
757 /* 85 */
758 {
759   "_id" : {
760     "title" : "The Hangover Part LXXX",
761     "year" : 2090
762   },
763   "actores" : 0
764 },
765
766 /* 86 */
767 {
768   "_id" : {
769     "title" : "The Hangover Part LXXXI",
770     "year" : 2091
771   },
772   "actores" : 0
773 },
774
775 /* 87 */
776 {
777   "_id" : {
778     "title" : "The Hangover Part LXXXII",
779     "year" : 2092
780   },
781   "actores" : 0
782 },
783
784 /* 88 */
785 {
786   "_id" : {
787     "title" : "The Hangover Part LXXXIII",
788     "year" : 2093
789   },
790   "actores" : 0
791 },
792
793 /* 89 */
794 {
795   "_id" : {
796     "title" : "The Hangover Part LXXXIV",
797     "year" : 2094
798   },
799   "actores" : 0
800 },
801
802 /* 90 */
803 {
804   "_id" : {
805     "title" : "The Hangover Part LXXXV",
806     "year" : 2095
807   },
808   "actores" : 0
809 },
810
811 /* 91 */
812 {
813   "_id" : {
814     "title" : "The Hangover Part LXXXVI",
815     "year" : 2096
816   },
817   "actores" : 0
818 },
819
820 /* 92 */
821 {
822   "_id" : {
823     "title" : "The Hangover Part LXXXVII",
824     "year" : 2097
825   },
826   "actores" : 0
827 },
828
829 /* 93 */
830 {
831   "_id" : {
832     "title" : "The Hangover Part LXXXVIII",
833     "year" : 2098
834   },
835   "actores" : 0
836 },
837
838 /* 94 */
839 {
840   "_id" : {
841     "title" : "The Hangover Part LXXXIX",
842     "year" : 2099
843   },
844   "actores" : 0
845 },
846
847 /* 95 */
848 {
849   "_id" : {
850     "title" : "The Hangover Part LXXXX",
851     "year" : 2100
852   },
853   "actores" : 0
854 },
855
856 /* 96 */
857 {
858   "_id" : {
859     "title" : "The Hangover Part LXXXXI",
860     "year" : 2101
861   },
862   "actores" : 0
863 },
864
865 /* 97 */
866 {
867   "_id" : {
868     "title" : "The Hangover Part LXXXXII",
869     "year" : 2102
870   },
871   "actores" : 0
872 },
873
874 /* 98 */
875 {
876   "_id" : {
877     "title" : "The Hangover Part LXXXXIII",
878     "year" : 2103
879   },
880   "actores" : 0
881 },
882
883 /* 99 */
884 {
885   "_id" : {
886     "title" : "The Hangover Part LXXXXIV",
887     "year" : 2104
888   },
889   "actores" : 0
890 },
891
892 /* 100 */
893 {
894   "_id" : {
895     "title" : "The Hangover Part LXXXXV",
896     "year" : 2105
897   },
898   "actores" : 0
899 },
900
901 /* 101 */
902 {
903   "_id" : {
904     "title" : "The Hangover Part LXXXXVI",
905     "year" : 2106
906   },
907   "actores" : 0
908 },
909
910 /* 102 */
911 {
912   "_id" : {
913     "title" : "The Hangover Part LXXXXVII",
914     "year" : 2107
915   },
916   "actores" : 0
917 },
918
919 /* 103 */
920 {
921   "_id" : {
922     "title" : "The Hangover Part LXXXXVIII",
923     "year" : 2108
924   },
925   "actores" : 0
926 },
927
928 /* 104 */
929 {
930   "_id" : {
931     "title" : "The Hangover Part LXXXXIX",
932     "year" : 2109
933   },
934   "actores" : 0
935 },
936
937 /* 105 */
938 {
939   "_id" : {
940     "title" : "The Hangover Part LXXXXX",
941     "year" : 2110
942   },
943   "actores" : 0
944 },
945
946 /* 106 */
947 {
948   "_id" : {
949     "title" : "The Hangover Part LXXXXXI",
950     "year" : 2111
951   },
952   "actores" : 0
953 },
954
955 /* 107 */
956 {
957   "_id" : {
958     "title" : "The Hangover Part LXXXXXII",
959     "year" : 2112
960   },
961   "actores" : 0
962 },
963
964 /* 108 */
965 {
966   "_id" : {
967     "title" : "The Hangover Part LXXXXXIII",
968     "year" : 2113
969   },
970   "actores" : 0
971 },
972
973 /* 109 */
974 {
975   "_id" : {
976     "title" : "The Hangover Part LXXXXXIV",
977     "year" : 2114
978   },
979   "actores" : 0
980 },
981
982 /* 110 */
983 {
984   "_id" : {
985     "title" : "The Hangover Part LXXXXXV",
986     "year" : 2115
987   },
988   "actores" : 0
989 },
990
991 /* 111 */
992 {
993   "_id" : {
994     "title" : "The Hangover Part LXXXXXVI",
995     "year" : 2116
996   },
997   "actores" : 0
998 },
999
1000 /* 112 */
1001 {
1002   "_id" : {
1003     "title" : "The Hangover Part LXXXXXVII",
1004     "year" : 2117
1005   },
1006   "actores" : 0
1007 },
1008
1009 /* 113 */
1010 {
1011   "_id" : {
1012     "title" : "The Hangover Part LXXXXXVIII",
1013     "year" : 2118
1014   },
1015   "actores" : 0
1016 },
1017
1018 /* 114 */
1019 {
1020   "_id" : {
1021     "title" : "The Hangover Part LXXXXXIX",
1022     "year" : 2119
1023   },
1024   "actores" : 0
1025 },
1026
1027 /* 115 */
1028 {
1029   "_id" : {
1030     "title" : "The Hangover Part LXXXXXX",
1031     "year" : 2120
1032   },
1033   "actores" : 0
1034 },
1035
1036 /* 116 */
1037 {
1038   "_id" : {
1039     "title" : "The Hangover Part LXXXXXXI",
1040     "year" : 2121
1041   },
1042   "actores" : 0
1043 },
1044
1045 /* 117 */
1046 {
1047   "_id" : {
1048     "title" : "The Hangover Part LXXXXXXII",
1049     "year" : 2122
1050   },
1051   "actores" : 0
1052 },
1053
1054 /* 118 */
1055 {
1056   "_id" : {
1057     "title" : "The Hangover Part LXXXXXXIII",
1058     "year" : 2123
1059   },
1060   "actores" : 0
1061 },
1062
1063 /* 119 */
1064 {
1065   "_id" : {
1066     "title" : "The Hangover Part LXXXXXXIV",
1067     "year" : 2124
1068   },
1069   "actores" : 0
1070 },
1071
1072 /* 120 */
1073 {
1074   "_id" : {
1075     "title" : "The Hangover Part LXXXXXXV",
1076     "year" : 2125
1077   },
1078   "actores" : 0
1079 },
1080
1081 /* 121 */
1082 {
1083   "_id" : {
1084     "title" : "The Hangover Part LXXXXXXVI",
1085     "year" : 2126
1086   },
1087   "actores" : 0
1088 },
1089
1090 /* 122 */
1091 {
1092   "_id" : {
1093     "title" : "The Hangover Part LXXXXXXVII",
1094     "year" : 2127
1095   },
1096   "actores" : 0
1097 },
1098
1099 /* 123 */
1100 {
1101   "_id" : {
1102     "title" : "The Hangover Part LXXXXXXVIII",
1103     "year" : 2128
1104   },
1105   "actores" : 0
1106 },
1107
1108 /* 124 */
1109 {
1110   "_id" : {
1111     "title" : "The Hangover Part LXXXXXXIX",
1112     "year" : 2129
1113   },
1114   "actores" : 0
1115 },
1116
1117 /* 125 */
1118 {
1119   "_id" : {
1120     "title" : "The Hangover Part LXXXXXXX",
1121     "year" : 2130
1122   },
1123   "actores" : 0
1124 },
1125
1126 /* 126 */
1127 {
1128   "_id" : {
1129     "title" : "The Hangover Part LXXXXXXxi",
1130     "year" : 2131
1131   },
1132   "actores" : 0
1133 },
1134
1135 /* 127 */
1136 {
1137   "_id" : {
1138     "title" : "The Hangover Part LXXXXXXxii",
1139     "year" : 2132
1140   },
1141   "actores" : 0
1142 },
1143
1144 /* 128 */
1145 {
1146   "_id" : {
1147     "title" : "The Hangover Part LXXXXXXxiii",
1148     "year" : 2133
1149   },
1150   "actores" : 0
1151 },
1152
1153 /* 129 */
1154 {
1155   "_id" : {
1156     "title" : "The Hangover Part LXXXXXXxiv",
1157     "year" : 2134
1158   },
1159   "actores" : 0
1160 },
1161
1162 /* 130 */
1163 {
1164   "_id" : {
1165     "title" : "The Hangover Part LXXXXXXxv",
1166     "year" : 2135
1167   },
1168   "actores" : 0
1169 },
1170
1171 /* 131 */
1172 {
1173   "_id" : {
1174     "title" : "The Hangover Part LXXXXXXxvi",
1175     "year" : 2136
1176   },
1177   "actores" : 0
1178 },
1179
1180 /* 132 */
1181 {
1182   "_id" : {
1183     "title" : "The Hangover Part LXXXXXXxvii",
1184     "year" : 2137
1185   },
1186   "actores" : 0
1187 },
1188
1189 /* 133 */
1190 {
1191   "_id" : {
1192     "title" : "The Hangover Part LXXXXXXxviii",
1193     "year" : 2138
1194   },
1195   "actores" : 0
1196 },
1197
1198 /* 134 */
1199 {
1200   "_id" : {
1201     "title" : "The Hangover Part LXXXXXXxix",
1202     "year" : 2139
1203   },
1204   "actores" : 0
1205 },
1206
1207 /* 135 */
1208 {
1209   "_id" : {
1210     "title" : "The Hangover Part LXXXXXXxx",
1211     "year" : 2140
1212   },
1213   "actores" : 0
1214 },
1215
1216 /* 136 */
1217 {
1218   "_id" : {
1219     "title" : "The Hangover Part LXXXXXXxi",
1220     "year" : 2141
1221   },
1222   "actores" : 0
1223 },
1224
1225 /* 137 */
1226 {
1227   "_id" : {
1228     "title" : "The Hangover Part LXXXXXXxii",
1229     "year" : 2142
1230   },
1231   "actores" : 0
1232 },
1233
1234 /* 138 */
1235 {
1236   "_id" : {
1237     "title" : "The Hangover Part LXXXXXXxiii",
1238     "year" : 2143
1239   },
1240   "actores" : 0
1241 },
1242
1243 /* 139 */
1244 {
1245   "_id" : {
1246     "title" : "The Hangover Part LXXXXXXxiv",
1247     "year" : 2144
1248   },
1249   "actores" : 0
1250 },
1251
1252 /* 140 */
1253 {
1254   "_id" : {
1255     "title" : "The Hangover Part LXXXXXXxv",
1256     "year" : 2145
125
```

19. Sobre actors (nueva colección), mostrar los 5 actores cuya carrera haya sido la más larga. Para ello, se debe mostrar cuándo comenzó su carrera, cuándo finalizó y cuántos años han pasado. Importante! Se necesita previamente filtrar para descartar aquellos actores llamados "Undefined". Aclarar que no se eliminan de la colección, sólo que filtramos para que no aparezcan.

```
db.actors.aggregate([
  {
    $match: {
      "cast": {
        {
          $ne:"Undefined"
        }
      }
    },
  },
  {
    $group: {
      _id: {actor:"$cast"},
      comienza: {$min:"$year"},
      termina: {$max:"$year"}
    }
  },
  {
    $project: {
      "comienza": 1,
      "termina":1,
      experiencia: {$subtract:
["$termina","$comienza"]}
    }
  },
  {
    $sort: {"experiencia": -1}
  },
  {
    $limit: 5
  }
])
```

```
1  /* 1 */
2  {
3    "_id" : {
4      "actor" : "Harrison Ford"
5    },
6    "comienza" : 1919,
7    "termina" : 2017,
8    "experiencia" : 98
9  },
10
11 /* 2 */
12 {
13   "_id" : {
14     "actor" : "Gloria Stuart"
15   },
16   "comienza" : 1932,
17   "termina" : 2012,
18   "experiencia" : 80
19 },
20
21 /* 3 */
22 {
23   "_id" : {
24     "actor" : "Lillian Gish"
25   },
26   "comienza" : 1912,
27   "termina" : 1987,
28   "experiencia" : 75
29 },
30
31 /* 4 */
32 {
33   "_id" : {
34     "actor" : "Kenny Baker"
35   },
36   "comienza" : 1937,
37   "termina" : 2012,
38   "experiencia" : 75
39 },
40
41 /* 5 */
42 {
43   "_id" : {
44     "actor" : "Angela Lansbury"
45   },
46   "comienza" : 1944,
47   "termina" : 2018,
48   "experiencia" : 74
49 }
```

20. Sobre actors (nueva colección), Guardar en nueva colección llamada “genres” realizando la fase \$unwind por genres. Después, contar cuantos documentos existen en la nueva colección.

```
db.actors.aggregate([
  {
    $unwind: "$genres"
  },
  {
    $project: {"_id": 0}
  },
  {
    $out: "genres"
  }
])
db.genres.find().count()
```



21. Sobre genres (nueva colección), mostrar los 5 documentos agrupados por “Año y Género” que más número de películas diferentes tienen mostrando el número total de películas.

```
db.genres.aggregate([
  {
    $group: {
      _id: {año:"$year", generos:"$genres"},
      "total": {$sum: 1}}
  },
  {
    $sort: {"total":-1}
  },
  {
    $limit:5
  }
])
```



	_id		total
	año	generos	
1	2012 (2.0K)	Comedy	790
2	2013 (2.0K)	Comedy	694
3	2017 (2.0K)	Drama	677
4	2012 (2.0K)	Drama	657
5	1919 (1.9K)	Drama	618

22. Sobre genres (nueva colección), mostrar los 5 actores y los géneros en los que han participado con más número de géneros diferentes, se debe mostrar el número de géneros diferentes que ha interpretado. Importante! Se necesita previamente filtrar para descartar aquellos actores llamados "Undefined". Aclarar que no se eliminan de la colección, sólo que filtramos para que no aparezcan.

```
db.genres.aggregate([
  {
    $match: {
      "cast": {
        $ne: "Undefined"
      },
      "genres": {
        $ne: "Undefined"
      }
    },
    {
      $group: {
        _id: {actor: "$cast"},
        genres: {$addToSet: "$genres"}
      }
    },
    {
      $project: {
        _id: 1
        genres: 1
        numgeneros: {$size: "$genres"}
      }
    },
    {
      $sort: {numgeneros: -1}
    },
    {
      $limit: 5
    }
  ]
})
```

```
1  /* 1 */
2  {
3    "_id" : {
4      "actor" : "Dennis Quaid"
5    },
6    "generos" : [
7      "Drama",
8      "Horror",
9      "Comedy",
10     "Crime",
11     "Dance",
12     "Animated",
13     "Family",
14     "Disaster",
15     "Suspense",
16     "Western",
17     "Satire",
18     "Thriller",
19     "Musical",
20     "Fantasy",
21     "Adventure",
22     "Biography",
23     "Sports",
24     "Romance",
25     "Action",
26     "Science Fiction"
27   ],
28   "numgeneros" : 20
29 },
30 ]
```

)

genres 0.482 s 5 Docs			50	p. 1	1 - 5	Table
	_id	generos	numgeneros			
1	{ actor : "Dennis Quaid" }	Array[20]	20			
2	{ actor : "Gene Hackman" }	Array[18]	18			
3	{ actor : "Michael Peña" }	Array[18]	18			
4	{ actor : "Helen Mirren" }	Array[18]	18			
5	{ actor : "Danny Glover" }	Array[18]	18			

23. Sobre géneros (nueva colección), mostrar las 5 películas y su año correspondiente en los que más géneros diferentes han sido catalogados, mostrando esos géneros y el número de géneros que contiene.

```
db.genres.aggregate([
  {
    $match: {
      "genres": {
        $ne:"Undefined"
      }
    },
    {
      $group: {
        _id: {titulo:"$title", año:"$year"},
        generos: {$addToSet: "$genres"}
      }
    },
    {
      $project: {
        _id:1
        generos:1
        numgeneros:{$size:"$generos"}
      }
    },
    {
      $sort:{numgeneros:-1}
    },
    {
      $limit:5
    }
  ]
})
```

```
1  /* 1 */
2  {
3    "_id" : {
4      "titulo" : "American Made",
5      "año" : 2017
6    },
7    "generos" : [
8      "Crime",
9      "Action",
10     "Thriller",
11     "Drama",
12     "Historical",
13     "Biography",
14     "Comedy"
15   ],
16   "numgeneros" : 7
17 },
```

Key	Value	Type
▶ (1) { titulo : "American Made", "año" : 2017 }	{ generos : ["Crime", "Action", "Thriller", "Drama", "Historical", "Biography", "Comedy"], numgeneros : 7 }	Document
▶ (2) { titulo : "Wonder Woman", "año" : 2017 }	{ generos : ["Superhero", "Action", "Fantasy", "Adventure", "Drama", "War"], numgeneros : 6 }	Document
▶ (3) { titulo : "The Dark Tower", "año" : 2017 }	{ generos : ["Fantasy", "Adventure", "Horror", "Action", "Science Fiction", "Western"], numgeneros : 6 }	Document
▶ (4) { titulo : "My Little Pony: The Movie", "año" : 2017 }	{ generos : ["Family", "Adventure", "Fantasy", "Animated", "Comedy", "Musical"], numgeneros : 6 }	Document
▶ (5) { titulo : "Dunkirk", "año" : 2017 }	{ generos : ["Action", "Thriller", "Drama", "Adventure", "Historical", "War"], numgeneros : 6 }	Document

24. Sobre genres buscar el nombre de Tom y ver qué Tom ha sido el que mayor numero de géneros ha participado y en cuales.

```
db.actors.aggregate([
  {
    $match: {
      "cast":{$regex: "Tom"},
      "genres":{$ne:"Undefined"}
    }
  },
  {
    $group: {
      _id: { actor:"$cast"}
      genres: {$addToSet: "$genres"}
    }
  },
  {
    $project: {
      _id: 1
      genres:1
      numgeneros:{$size :"$genres"}
    }
  },
  {
    $sort: {numgeneros:-1}
  },
  {
    $limit: 1
  }
])
```



```
actors 0.144 s 1 Doc
1 {
2   "_id" : {
3     "actor" : "Tom Hanks"
4   },
5   "generos" : [
6     [ "Comedy", "Drama" ],
7     [ "Family" ],
8     [ "Adventure" ],
9     [ "Romance", "Comedy" ],
10    [ "Adventure", "Mystery" ],
11    [ "Adventure", "Drama" ],
12    [ "Biography", "Drama", "Historical", "Thriller" ],
13    [ "Thriller" ],
14    [ "Action", "Drama", "Thriller" ],
15    [ "Drama", "Musical" ],
16    [ "Crime", "Drama" ],
17    [ "War", "Drama" ],
18    [ "Animated", "Family" ],
19    [ "Drama", "Comedy" ],
20    [ "Drama" ],
21    [ "Biography", "Drama" ],
22    [ "Comedy" ],
23    [ "Drama", "Biography" ],
24    [ "Animated" ],
25    [ "Drama", "War" ],
26    [ "Animated", "Comedy", "Family" ],
27    [ "Science Fiction", "Drama", "Thriller" ]
28  ],
29  "numgeneros" : 22
30 }
```

)

25. Query sobre actors en el que buscamos el Tom que ha hecho mayor número de películas.

```
db.actors.aggregate([
  {
    $match: {
      "cast":{$regex: "Tom"},
    }
  },
  {
    $group: {
      _id: { actor:"$cast"}
      pelis: {$addToSet: "$title"}
    }
  },
  {
    $project: {
      _id: 1
      pelis:1
      numpelis:{$size :"$pelis"}
    }
  },
  {
    $sort:{numpelis:-1}
  },
  {
    $limit:1
  }
])
```

actors 0.141 s 5 Docs	
1	/* 1 */
2	{
3	"_id" : {
4	"actor" : "Tom and Jerry"
5	},
6	"pelis" : [
7	"Salt Water Tabby",
8	"Springtime for Thomas",
9	"The Framed Cat",
10	"Sleepy-Time Tom",
11	"Love That Pup",
12	"Little Quacker",
13	"Pup on a Picnic",
14	"Fine Feathered Friend",
15	"The Flying Sorceress",
16	"Tee for Two",
17	"Timid Tabby",
18	"The Dog House",
19	"The Missing Mouse",
20	"Muscle Beach Tom",
21	"The Milky Waif",
22	"Trap Happy",
23	"The Lonesome Mouse",
24	"Tops with Pops",
25	"Robin Hoodwinked",
26	"Solid Serenade",
27	"A Mouse in the House",
28	"Saturday Evening Puss",
29	"Little Runaway",
30	"Southbound Duckling",
31	"Happy Go Ducky",

actors 0.141 s 5 Docs	
78	"Busy Buddies",
79	"Tom's Photo Finish",
80	"Switchin' Kitten",
81	"Barbecue Brawl",
82	"Quiet Please!",
83	"Carmen Get It!",
84	"His Mouse Friday",
85	"Cue Ball Cat",
86	"Dr. Jekyll and Mr. Mouse",
87	"Jerry and Jumbo",
88	"The Vanishing Duck",
89	"Jerry and the Goldfish",
90	"The Mouse Comes to Dinner",
91	"Mouse Into Space"
92],
93	"numpelis" : 85
94	},

26.¿Qué película ha hecho Tom Hardy a partir de 2010 y de género de Comedia?

```
db.genres.aggregate([
  {
    $match:{
      "genres":{$regex: "Comedy"},
      "year":{$gt: 2010}
      "cast":{$regex: "Tom Hardy"}
    }
  }

  {
    $group:{
      _id: {peli:"$title",año:"$year"}

    }

  }

])
```

genres		0.119 s	1 Doc
1	{		
2	"_id" : {		
3	"peli" : "This Means War",		
4	"año" : 2012		
5	}		
6	}		