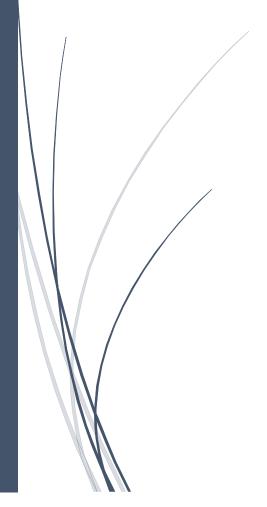
Practica 2

MongoDB



Fernando Revilla Maqueda

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Parámetros de Conexión

Para MongoCompas:

mongodb+srv://FRM00:<password>@clusterfrm.6e8ku.mongodb.net/test

Contraseña: root

Para MongoAtlas:

782891@unizar.es

Contraseña: 31052000

Para conectarse desde Shell:

mongo "mongodb+srv://clusterfrm.6e8ku.mongodb.net/myFirstDatabase" --username FRM00

Contraseña: root

Consulta 1

db.films.find({\$and:[{"Actors.First name": "SIDNEY"}, {"Actors.Last name": "CROWE"}]}, {"Category": 1, "Title": 1, "_id": 0}).sort({Category: 1}).pretty()

```
MongoDB Enterprise atlas-viz8yh-shard-0:PRIMARY> db.films.find({$and:[{"Actors.First name": "SIDNEY"}, {"Actors.Last name": "CROWE"}]}, {"Category": 1, "Title": 1, "_id": 0}).sort({Category: 1}).pretty()
{ "Category": "Action", "Title": "AMERICAN CIRCUS" }
{ "Category": "Action", "Title": "ANTITRUST TOMATOES" }
{ "Category": "Action", "Title": "LORD ARIZONA" }
{ "Category": "Action", "Title": "TRUMAN CRAZY" }
{ "Category": "Animation", "Title": "DOGMA FAMILY" }
{ "Category": "Animation", "Title": "OOGMA FAMILY" }
{ "Category": "Children", "Title": "SUNDANCE INVASION" }
{ "Category": "Children", "Title": "SUNDANCE INVASION" }
{ "Category": "Children", "Title": "SUNDANCE INVASION" }
{ "Category": "Comedy", "Title": "SUNDANDATE PERDITION" }
{ "Category": "Comedy", "Title": "SUNDANDATE PERDITION" }
{ "Category": "Comedy", "Title": "TRAMP OTHERS" }
{ "Category": "Family", "Title": "FINDING ANACONDA" }
{ "Category": "Family", "Title": "GREASE YOUTH" }
{ "Category": "Family", "Title": "SIEGE MADRE" }
{ "Category": "Family", "Title": "SIEGE MADRE" }
{ "Category": "Family", "Title": "SIEGE MADRE" }
{ "Category": "Foreign", "Title": "SIEGE MADRE" }
{ "Category": "Horror", "Title": "SIEGE MADRE" }
{ "Category": "Horror", "Title": "SIEGE MADRE" }
{ "Category": "Horror", "Title": "SPY MILE" }
{ "Category": "Horror", "Title": "SPY MILE" }
{ "Category": "Horror", "Title": "SPY MILE" }
{ "Category": "Music", "Title": "SPY MILE" }
{ "Category": "Music", "Title": "ALASKA PHANTOM" }
Type "it" for more
MongoDB Enterprise atlas-viz8yh-shard-0:PRIMARY>
```

Consulta 2

db.films.aggregate([{\$match:{"Actors.First name": "SANDRA", "Actors.Last name": "PECK"}}, {\$group:{_id:"\$Rating", count:{\$sum: 1}}}, {\$sort:{count: -1}}, {\$limit: 1}])

```
MongoDB Enterprise atlas-viz8yh-shard-0:PRIMARY> db.films.aggregate([{$match:{"Actors.First name": "SANDRA", "Actors. Last name": "PECK"}}, {$group:{_id:"$Rating", count:{$sum: 1}}}, {$sort:{count: -1}}, {$limit: 1}]) { "_id" : "G", "count" : 6 }
```

Consulta 3

db.customers.aggregate([{\$lookup:{from: "films",localField:"Rentals.filmId",foreignField:"_id", as: "aux"}},{\$match:{"First Name": "WENDY","Last Name": "HARRISON"}},{\$project:{ "_id":0,"First Name":1, "Last Name":1,"aux.Title":1,"aux.Category":1," aux.Length":1}}]).pretty()

```
MongoDB Enterprise atlas-viz8yh-shard-0:PRIMARY> db.customers.aggregate([{$lookup:{from: "films",localField:"Rentals.
filmId",foreignField:"_id", as: "aux"}},{$match:{"First Name": "WENDY","Last Name": "HARRISON"}},{$project:{ "_id":0,
"First Name":1, "Last Name":1,"aux.Title":1,"aux.Category":1," aux.Length":1}}]).pretty()
               "First Name" : "WENDY",
"Last Name" : "HARRISON",
"aux" : [
                                                "Category" : "Music",
"Title" : "ALASKA PHANTOM"
                                                "Category" : "Drama",
"Title" : "BEAUTY GREASE"
                                                "Category" : "Sports",
"Title" : "CHANCE RESURRECTION"
                                                "Category" : "Children",
"Title" : "CLOCKWORK PARADISE"
                                                "Category" : "Children",
"Title" : "CROOKED FROGMEN"
                                                "Category" : "Travel",
"Title" : "DISCIPLE MOTHER"
                                                "Category" : "Classics",
"Title" : "DRACULA CRYSTAL"
                                                "Category" : "Games",
"Title" : "GUN BONNIE"
                                                "Category" : "Music",
"Title" : "HANOVER GALAXY"
                                                "Category" : "Games",
"Title" : "HAUNTING PIANIST"
                                                "Category" : "Foreign",
"Title" : "HELLFIGHTERS SIERRA"
                                                "Category" : "Classics",
"Title" : "HYDE DOCTOR"
                                                "Category" : "Foreign",
"Title" : "JET NEIGHBORS"
                                                "Category" : "Classics",
"Title" : "LEAGUE HELLFIGHTERS"
```

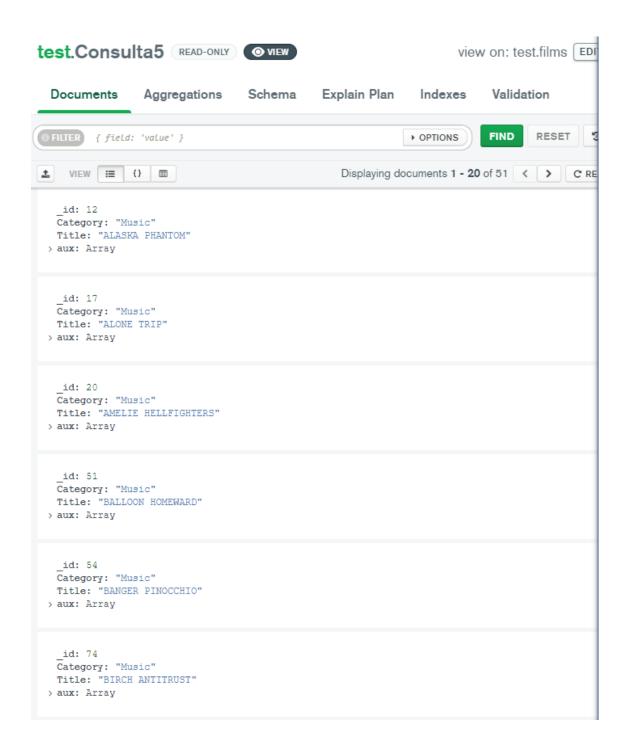
Consulta 4

db.films.aggregate([{\$match:{"Category":"Music"}},{\$lookup:{from: "customers",localField:"_id",foreignField:"Rentals.filmId",as: "aux"}},{\$project:{"_id":0,"Title": 1,"Total_Peliculas":{\$size: "\$aux.Rentals"}}},{\$sort:{"Total_Peliculas":-1}},{\$limit:8}]).pretty()

```
MongoDB Enterprise atlas-viz8yh-shard-0:PRIMARY> db.films.aggregate([{$match:{"Category":"Music"}},{$lookup:{from: "customers",localField:"id",foreignField:"Rentals.filmId",as: "aux"}},{$project:{"_id":0,"Title": 1,"Total_Peliculas": { $size: "$aux.Rentals"}}},{$sort:{"Total_Peliculas": -1}},{$limit:8}]).pretty() { "Title": "SCALAWAG DUCK", "Total_Peliculas": 32 } { "Title": "CONPIDENTIAL INTERVIEW", "Total_Peliculas": 29 } { "Title": "ENEMY ODDS", "Total_Peliculas": 29 } { "Title": "GREATEST NORTH", "Total_Peliculas": 29 } { "Title": "BOOGIE AMELIE", "Total_Peliculas": 28 } { "Title": "TELEGRAPH VOYAGE", "Total_Peliculas": 27 } { "Title": "DORADO NOTTINO", "Total_Peliculas": 27 } { "Title": "DEER VIRGINIAN", "Total_Peliculas": 27 } MongoDB Enterprise atlas-viz8yh-shard-0:PRIMARY>
```

Consulta 5

db.createView("Consulta5", "films",[{\$match:{"Category":"Music"}},{\$lookup:{from: "customers",localField:"_id",foreignField:"Rentals.filmId",as: "aux"}},{\$project:{"Title":1,"Category":1,"aux.First Name":1,"aux.Last Name":1}},])



Pregunta 7

db.notas_corte_unizar.aggregate([{\$addFields:{NOTA_ENTERO_JULIO: {\$toDecimal: "\$NOTA_CORTE_DEFINITIVA_JULIO"}}}]).pretty()

db.notas_corte_unizar.aggregate([{\$addFields:{NOTA_ENTERO_SEPTIEMBRE: {\$toDecimal: "\$NOTA_CORTE_DEFINITIVA_SEPTIEMBRE"}}}]).pretty()

Pregunta 8

db.createView("UnionColecciones", "notas_corte_unizar",[{\$lookup:{from: "oferta_unizar", localField:"_id",foreignField:"_id",as: "aux"}},{\$project:

{"CURSO_ACADEMICO":1,"ESTUDIO":1,"LOCALIDAD":1,"CENTRO":1,"NOTA_CORTE_DEFINITIV A_JULIO":1,"NOTA_CORTE_DEFINITIVA_SEPTIEMBRE":1,"FECHA_ACTUALIZACION":1,

"aux.TIPO_CENTRO":1,"aux.TIPO_ESTUDIO":1,"aux.PLAZAS_OFERTADAS":1,"aux.PLAZAS_MAT RICULADAS":1,"aux.PLAZAS_SOLICITADAS":1,"aux.INDICE_OCUPACION":1,}})