



SCRIPT MAGICO

BOOTCAM



TALLER PERSONAJES EN MONGO

1 obtén la lista de personajes que están vivos (status: "Alivie"). Limita los resultados a 5 personajes y alfabéticamente por nombre.

MongoDB Compass - localhost:27017/nueva_base.Personajes

Connect Edit View Collection Help

localhost:27017 ... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva...

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Pipeline \$match \$limit \$sort Generate aggregation Explain Export Run More Options

ejercicio 1 - modified SAVE + CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

120 Documents in the collection

Preview of documents

```
{
  "type": "Human",
  "gender": "Male",
  "origin": Object,
  "location": Object,
  "image": "https://rickandmortyapi.com/api/character/avatar/1.jpeg",
  "episode": Array (51),
  "url": "https://rickandmortyapi.com/api/character/1",
  "created": "2017-11-04T18:48:46.256Z"
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e35'),
  "id": 2,
  "name": "Morty Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e36'),
  "id": 3,
  "name": "Summer Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Female",
  "origin": Object,
  "location": Object
}
```

Stage 1 \$match

```
1 {
2   status:"Alivie",
3 }
4
```

Output after \$match stage (Sample of 10 documents)

```
{
  "_id": ObjectId('6529f525333daf9e852a5e34'),
  "id": 1,
  "name": "Rick Sanchez",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e35'),
  "id": 2,
  "name": "Morty Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object
}
```

Stage 2 \$limit

```
1 5
```

Output after \$limit stage (Sample of 5 documents)

```
{
  "_id": ObjectId('6529f525333daf9e852a5e34'),
  "id": 1,
  "name": "Rick Sanchez",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e35'),
  "id": 2,
  "name": "Morty Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object
}
```

Stage 3 \$sort

```
1 {
2   name:1,
3 }
```

Output after \$sort stage (Sample of 5 documents)

```
{
  "_id": ObjectId('6529f525333daf9e852a5e37'),
  "id": 4,
  "name": "Beth Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Female",
  "origin": Object,
  "location": Object
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e38'),
  "id": 5,
  "name": "Jerry Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object
}
```

2 encuentra el número total de personajes de género masculino (gender: "Male").

The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure with 'nueva_base' selected, containing 'Personajes' (120 documents) and 'personas' (1 index). The main panel shows the 'Personajes' collection with a preview of documents. The aggregation pipeline is empty, and the 'Run' button is visible.

The screenshot shows the aggregation pipeline editor for the 'Personajes' collection. The pipeline consists of a single stage: `$group`. The output of the `$group` stage is shown as a sample of 3 documents:

```
{ "_id": "Male", "cantidad": 82 }
```

```
{ "_id": "unknown", "cantidad": 17 }
```

The screenshot shows the aggregation pipeline editor for the 'Personajes' collection. The pipeline consists of a single stage: `$match`. The output of the `$match` stage is shown as a sample of 1 document:

```
{ "_id": "Male", "cantidad": 82 }
```

3 obtén una lista de las especies únicas presentes en la base de datos.

MongoDB Compass - localhost:27017/nueva_base.Personajes

localhost:27017 ...

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Pipeline \$group

Generate aggregation Explain Export Run More Options

ejercicio 3 SAVE CREATE NEW EXPORT TO LANGUAGE

PREVIEW STAGES TEXT

120 Documents in the collection

Preview of documents

```
{ "_id": ObjectId("6529f525333daf9e852a5e34"), "id": 1, "name": "Rick Sanchez", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": "Object" }
```

```
{ "_id": ObjectId("6529f525333daf9e852a5e35"), "id": 2, "name": "Morty Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": "Object" }
```

```
{ "_id": ObjectId("6529f525333daf9e852a5e36"), "id": 3, "name": "Summer Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Female", "origin": "Object" }
```

Stage1 \$group

```
1 {
2   _id: "$species",
3   cantidad: {
4     $sum: 1,
5   },
6 }
```

Output after \$group stage (Sample of 10 documents)

```
{ "_id": "Disease", "cantidad": 6 }
```

```
{ "_id": "Mythological Crea", "cantidad": 6 }
```

4 Encuentra el número de episodios en los que aparece el personaje con ID 6.

MongoDB Compass - localhost:27017/nueva_base.Personajes

localhost:27017 ...

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nueva_base

Personajes

personas

nueva_base.Personajes

120 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Indexes Validation

Pipeline \$project

Generate aggregation Explain Export Run More Options

ejercicio 4 - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

120 Documents in the collection

Preview of documents

```
{
  "_id": ObjectId("6529f525333daf9e852a5e34"),
  "id": 1,
  "name": "Rick Sanchez",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object
}
```

```
{
  "_id": ObjectId("6529f525333daf9e852a5e35"),
  "id": 2,
  "name": "Morty Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object
}
```

```
{
  "_id": ObjectId("6529f525333daf9e852a5e36"),
  "id": 3,
  "name": "Summer Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Female",
  "origin": Object
}
```

Stage 1 \$project

```
1
2 {
3   id:"6",
4   cantidadesEpisodios: {
5     $size:"$episode"
6   }
7 }
8
9 }
```

Output after \$project stage (Sample of 10 documents)

```
{
  "_id": ObjectId("6529f525333daf9e852a5e34"),
  "id": "6",
  "cantidadesEpisodios": 51
}
```

5 Encuentra el promedio de episodios en los que aparecen los personajes de género femenino.

MongoDB Compass - localhost:27017 / nueva_base.Personajes

localhost:27017 ...

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Documents Aggregations Schema Indexes Validation

Pipeline \$match \$group Generate aggregation Explain Export Run More Options

ejercicio 5 - modified SAVE + CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

120 Documents in the collection

Preview of documents

```
{
  "type": "",
  "gender": "Male",
  "origin": Object,
  "location": Object,
  "image": "https://rickandmortyapi.com/api/charac...",
  "episode": Array (51)
  "url": "https://rickandmortyapi.com/api/characte...",
  "created": "2017-11-04T18:48:46.250Z"
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e35'),
  "id": 2,
  "name": "Morty Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Male",
  "origin": Object
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e36'),
  "id": 3,
  "name": "Summer Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Female",
  "origin": Object
}
```

ejercicio 5 - modified SAVE + CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

Stage 1 \$match

```
1 {
2   {
3     gender: "Female",
4   }
}
```

Output after \$match stage (Sample of 10 documents)

```
{
  "_id": ObjectId('6529f525333daf9e852a5e36'),
  "id": 3,
  "name": "Summer Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Female",
  "origin": Object,
  "location": Object
}
```

```
{
  "_id": ObjectId('6529f525333daf9e852a5e37'),
  "id": 4,
  "name": "Beth Smith",
  "status": "Alive",
  "species": "Human",
  "type": "",
  "gender": "Female",
  "origin": Object,
  "location": Object
}
```

ejercicio 5 - modified SAVE + CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

Stage 2 \$group

```
1 {
2   _id: null,
3   promedioepisodios: {
4     $avg: {
5       $size: "$episode"
6     }
7   }
8 }
```

Output after \$group stage (Sample of 1 document)

```
{
  "_id": null,
  "promedioepisodios": 5.476190476190476
}
```

6 agrupa los personajes por su estado ("status") y muestra cuántos personajes están vivos y cuántos están muertos en cada grupo.

MongoDB Compass - localhost:27017/nueva_base.Personajes

Connect Edit View Collection Help

localhost:27017 ...

Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva... Aggre... nueva...

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ejercicio 6 - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

120 Documents in the collection

Preview of documents

```
{ "_id": ObjectId("6529f525333daf9e852a5e34"), "id": 1, "name": "Rick Sanchez", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": Object }
{ "_id": ObjectId("6529f525333daf9e852a5e35"), "id": 2, "name": "Morty Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": Object }
{ "_id": ObjectId("6529f525333daf9e852a5e36"), "id": 3, "name": "Summer Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Female", "origin": Object }
```

Stage 1 \$match

```
1 {
2   status: {
3     $in: ["Alive", "Dead"],
4   }
5 }
```

Output after \$match stage (Sample of 10 documents)

```
{ "_id": ObjectId("6529f525333daf9e852a5e34"), "id": 1, "name": "Rick Sanchez", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": Object, "location": Object }
{ "_id": ObjectId("6529f525333daf9e852a5e35"), "id": 2, "name": "Morty Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": Object, "location": Object }
```

Stage 2 \$group

```
1 {
2   _id: "$status",
3   cantidad: {
4     $sum: 1,
5   },
6 }
```

Output after \$group stage (Sample of 2 documents)

```
{ "_id": "Dead", "cantidad": 50 }
{ "_id": "Alive", "cantidad": 51 }
```

7 encuentra el número de episodios en los que aparece cada personaje. Muestra el resultado con el nombre del personaje y la cantidad de episodios en los que aparece.

MongoDB Compass - localhost:27017/nueva_base.Personajes

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Documents Aggregations Schema Indexes Validation

Pipeline \$group \$project

Generate aggregation Explain Export Run More Options

ejercicio 7 SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

120 Documents in the collection

Preview of documents

```
{
  "type": "Human",
  "gender": "Male",
  "origin": "Object",
  "location": "Object",
  "image": "https://rickandmortyapi.com/api/charac...",
  "episode": "Array (51)",
  "url": "https://rickandmortyapi.com/api/characte...",
  "created": "2017-11-04T18:48:46.250Z"
}
```

```
{
  "_id": "ObjectID('6529f525333daf9e852a5e35')",
  "id": 2,
  "name": "Morty Smith",
  "status": "Alive",
  "species": "Human",
  "type": "Human",
  "gender": "Male",
  "origin": "Object"
}
```

```
{
  "_id": "ObjectID('6529f525333daf9e852a5e35')",
  "id": 3,
  "name": "Summer Smith",
  "status": "Alive",
  "species": "Human",
  "type": "Human",
  "gender": "Female",
  "origin": "Object"
}
```

ejercicio 7 SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

Stage 1 \$group

```
1 {
2   _id: "$name",
3   cantidad: {
4     $sum: 1,
5   },
6 }
```

Output after \$group stage (Sample of 10 documents)

```
{
  "_id": "Beth's Mytholog",
  "cantidad": 1
}
```

```
{
  "_id": "Bootleg Portal Ch",
  "cantidad": 1
}
```

ejercicio 7 SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

Stage 2 \$project

```
1 {
2   _id: 0,
3   nombre_personaje: "$_id",
4   cantidadepisodios: "$cantidad",
5 }
```

Output after \$project stage (Sample of 10 documents)

```
{
  "nombre_personaje": "Cronenberg Morty",
  "cantidadepisodios": 1
}
```

```
{
  "nombre_personaje": "Atti",
  "cantidadepisodios": 1
}
```


8 encuentra la ubicación más común de los personajes. Muestra el nombre de la ubicación y cuántos personajes están allí.

The screenshot shows the MongoDB Compass interface for a database named 'nueva_base' and a collection named 'Personajes'. The aggregation pipeline is configured with three stages: \$group, \$sort, and \$limit.

Stage 1: \$group

```
1 {
2   _id: "$location",
3   cantidad: {
4     $sum: 1,
5   }
6 }
```

Output after \$group stage (Sample of 10 documents):

```
{ "_id": "Rick", "cantidad": 1 }
{ "_id": "Morty", "cantidad": 1 }
{ "_id": "Summer", "cantidad": 1 }
```

Stage 2: \$sort

```
1 {
2   cantidad: -1,
3 }
4 }
```

Output after \$sort stage (Sample of 10 documents):

```
{ "_id": "Rick", "cantidad": 5 }
{ "_id": "Morty", "cantidad": 11 }
```

Stage 3: \$limit

```
1 1
```

Output after \$limit stage (Sample of 1 document):

```
{ "_id": "Rick", "cantidad": 27 }
```

The final result shows that 'Rick' is the most common location with 27 characters.

9 proyecta una lista de personajes que incluya solo sus nombres, género y estado. Limita los resultados a 3 personajes y ordénalos alfabéticamente por nombre.

MongoDB Compass - localhost:27017/nueva_base.Personajes

localhost:27017 ...

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Pipeline \$project \$limit \$sort Generate aggregation Explain Export Run More Options

ejercicio 9 SAVE + CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

120 Documents 1 Indexes

Preview of documents

```
{ "_id": ObjectId("6529f525333daf9e852a5e34"), "id": 1, "name": "Rick Sanchez", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": Object(...) }
```

```
{ "_id": ObjectId("6529f525333daf9e852a5e35"), "id": 2, "name": "Morty Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Male", "origin": Object(...) }
```

```
{ "_id": ObjectId("6529f525333daf9e852a5e36"), "id": 3, "name": "Summer Smith", "status": "Alive", "species": "Human", "type": "", "gender": "Female", "origin": Object(...) }
```

Stage 1 \$project

```
1 {
2   _id: 0,
3   name: 1,
4   gender: 1,
5   status: 1,
6 }
7
```

Output after \$project stage (Sample of 10 documents)

```
{ "name": "Rick Sanchez", "status": "Alive", "gender": "Male" }
```

```
{ "name": "Morty Smith", "status": "Alive", "gender": "Male" }
```

Stage 2 \$limit

```
1 3
```

Output after \$limit stage (Sample of 3 documents)

```
{ "name": "Rick Sanchez", "status": "Alive", "gender": "Male" }
```

```
{ "name": "Morty Smith", "status": "Alive", "gender": "Male" }
```

Stage 3 \$sort

```
1 {
2   name: 1,
3 }
```

Output after \$sort stage (Sample of 3 documents)

```
{ "name": "Morty Smith", "status": "Alive", "gender": "Male" }
```

```
{ "name": "Rick Sanchez", "status": "Alive", "gender": "Male" }
```