

Normalización

Consultar libros por isbn

The screenshot shows the MongoDB Compass interface with the following details:

- Database:** talleres > talleresBD > librosNormalizacion
- Aggregation Pipeline:**

```
1 [{ $lookup: {
2   from: "autoresNormalizacion",
3   localField: "autor_id",
4   foreignField: "_id",
5   as: "AutorInfo"
6 } },
7 { $lookup: {
8   from: "generosNormalizacion",
9   localField: "genero_id",
10  foreignField: "_id",
11  as: "GeneroInfo"
12 } },
13 { $match: { isbn: "978-9585118741" } }
14 ]
```
- PIPELINE OUTPUT:** Sample of 1 document

```
{ "_id": ObjectId('671fed2cbe4335ccd54c8e4e'),
  "isbn": "978-9585118741",
  "titulo": "La bestia",
  "autor_id": "001",
  "genero_id": "900",
  "AutorInfo": Array (1)
    0: Object
      _id: "001",
      nombre: "Carmen Mola",
      nacionalidad: "Española",
  "GeneroInfo": Array (1)
    0: Object
      _id: "900",
      nombre_genero: "Thriller" }
```

Consultar libros con autores

The screenshot shows the MongoDB Compass interface with the following details:

- Database:** talleres > talleresBD > librosNormalizacion
- Aggregation Pipeline:**

```
1 /**
2  * from: The target collection.
3  * localField: The local join field.
4  * foreignField: The target join field.
5  * as: The name for the results.
6  * pipeline: Optional pipeline to run on the matched documents.
7  * let: Optional variables to use in the pipeline.
8  */
9 {
10   from: "autoresNormalizacion",
11   localField: "autor_id",
12   foreignField: "_id",
13   as: "autorInfo"
14 }
```
- Output after \$lookup stage (Sample of 10 documents):**

```
{ "_id": ObjectId('671fed2cbe4335ccd54c8e4e'),
  "isbn": "978-9585118741",
  "titulo": "La bestia",
  "autor_id": "001",
  "genero_id": "900",
  "autorInfo": Array (1)
    0: Object
      _id: "001",
      nombre: "Carmen Mola",
      nacionalidad: "Española" },
  { "_id": ObjectId('671ff06c...'),
    "isbn": "978-8413142966",
    "titulo": "La nena",
    "autor_id": "001",
    "genero_id": "900",
    "autorInfo": Array (1)
      0: Object
        _id: "001",
        nombre: "Carmen Mol",
        nacionalidad: "Espa" }
```

Consultar libros con autores y géneros

MongoDB Compass - talleres/talleresBD.librosNormalizacion

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (2)

localhost:27017

talleres

admin

config

local

talleresBD

autoresNormalizacion

curaos

estudiantes

estudianteall

generosNormalizacion

libros

librosNormalizacion

talleres > talleresBD > librosNormalizacion

Documents 10 Aggregations Schema Indexes 1 Validation

\$lookup \$lookup

Generate aggregation Explain Export Run Options

Untitled - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

```
1 {
2 {
3   $lookup:
4   {
5     from: "autoresNormalizacion",
6     localField: "autor_id",
7     foreignField: "_id",
8     as: "AutorInfo"
9   }
10 },
11 {
12   $lookup:
13   {
14     from: "generosNormalizacion",
15     localField: "genero_id",
16     foreignField: "_id",
17     as: "GeneroInfo"
18   }
19 }
20 }
```

PIPELINE OUTPUT

Sample of 10 documents

```
{
  "_id": ObjectId('671fed2cbe4335ccd54c0e4e'),
  "isbn": "978-9585118741",
  "titulo": "La bestia",
  "autor_id": "001",
  "genero_id": "900",
  "AutorInfo": Array (1)
  0: Object
    _id: "001",
    nombre: "Carmen Mala",
    nacionalidad: "Española",
  "GeneroInfo": Array (1)
  0: Object
    _id: "900",
    nombre_genero: "Thriller"
}
```

Looking in MongoDB aggregation