

Hoja de trucos de MongoDB

Comandos básicos

1. Conectar a MongoDB: Diferentes formas de conectarse usando Mongoshell

```
mongosh "URI"
mongosh --host mongodb0.example.com --port 28015
mongosh "mongodb://mongodb0.example.com:28015" --username alice --authenticationDatabase admin
```

1. Mostrar bases de datos
`show dbs`
2. Cambiar de base de datos
`use <database_name>`
3. Crear una colección
`db.createCollection("<collection_name>")`
4. Mostrar colecciones en la base de datos actual
`show collections`
5. Insertar un documento
`db.<collection_name>.insert({ field1: value1, field2: value2, ... })`
6. Insertar múltiples documentos
`db.<collection_name>.insertMany([document1, document2, ...])`
7. Encontrar documentos
`db.<collection_name>.find()`

Consultas

1. Filtrar documentos con una consulta
`db.<collection_name>.find({ field: value })`
2. Consulta de igualdad
`db.<collection_name>.find({ field: "value" })`
3. Consulta de rango

`db.<collection_name>.find({ field: { $lt: value } })`
`db.<collection_name>.find({ field: { $gt: value } })`
`db.<collection_name>.find({ field: { $lt: value, $gt: value } })`

4. Consulta AND
`db.<collection_name>.find({ field1: value1, field2: value2 })`
5. Consulta OR
`db.<collection_name>.find({ $or: [{ field1: value1 }, { field2: value2 }] })`
6. Ordenar ascendente
`db.<collection_name>.find().sort({ field: 1 })`
7. Ordenar descendente
`db.<collection_name>.find().sort({ field: -1 })`

Actualizar y eliminar

1. Actualizar documentos

```
db.<collection_name>.updateOne({ field: value }, { $set: { new_field: new_value } })
db.<collection_name>.updateMany({ field: value }, { $set: { new_field: new_value } })
```

2. Eliminar documentos

```
db.<collection_name>.deleteOne({ field: value })
db.<collection_name>.deleteMany({ field: value })
```

Agregación

1. Pipeline de agregación

```
db.<collection_name>.aggregate([
{ $match: { field: value } },
{ $group: { _id: "$field", total: { $sum: 1 } } }
])
```

Indexación

1. Crear un índice de un solo campo
`db.<collection_name>.createIndex({ field: 1 })`
2. Crear un índice compuesto
`db.<collection_name>.createIndex({ field: 1, another_field: 1 })`
3. Listar todos los índices
`db.<collection_name>.getIndexes()`

Exportar e importar datos

1. Exportar datos a JSON
`mongoexport --db <database_name> --collection <collection_name> --out <output_file.json>`
2. Importar datos desde JSON
`mongoimport --db <database_name> --collection <collection_name> --file <input_file.json>`

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