

MongoDB Cheat Sheet

Basic commands

1. Connect to MongoDB: Different ways to connect using Mongoshell

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

1. Show databases
`show dbs`
2. Switch database
`use <database_name>`
3. Create a collection
`db.createCollection("<collection_name>")`
4. Show collections in the current database
`show collections`
5. Insert a document
`db.<collection_name>.insert({ field1: value1, field2: value2, ... })`
6. Insert multiple documents
`db.<collection_name>.insertMany([document1, document2, ...])`
7. Find documents
`db.<collection_name>.find()`

Querying

1. Filter documents with a query
`db.<collection_name>.find({ field: value })`
2. Equality query
`db.<collection_name>.find({ field: "value" })`
3. Range query
`db.<collection_name>.find({ field: { $lt: value } })`
`db.<collection_name>.find({ field: { $gt: value } })`
`db.<collection_name>.find({ field: { $lt: value, $gt: value } })`
4. AND query
`db.<collection_name>.find({ field1: value1, field2: value2 })`
5. OR query
`db.<collection_name>.find({ $or: [{ field1: value1 }, { field2: value2 }] })`
6. Sort ascending
`db.<collection_name>.find().sort({ field: 1 })`
7. Sort descending
`db.<collection_name>.find().sort({ field: -1 })`

Update and delete

1. Update documents
`db.<collection_name>.updateOne({ field: value }, { $set: { new_field: new_value } })`
`db.<collection_name>.updateMany({ field: value }, { $set: { new_field: new_value } })`
2. Delete documents
`db.<collection_name>.deleteOne({ field: value })`
`db.<collection_name>.deleteMany({ field: value })`

Aggregation

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

Indexing

1. Create a single field index
`db.<collection_name>.createIndex({ field: 1 })`
2. Create a compound index
`db.<collection_name>.createIndex({ field: 1, another_field: 1 })`
3. List all indexes
`db.<collection_name>.getIndexes()`

Export and import data

1. Export data to JSON
`mongoexport --db <database_name> --collection <collection_name> --out <output_file.json>`
2. Import data from JSON
`mongoimport --db <database_name> --collection <collection_name> --file <input_file.json>`

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