

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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