

# MongoDB Cheat Sheet

## Basic commands

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

- 1.
- 2.
- 3.

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

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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

- 1.
- 2.
- 3.
1. db.<collection\_name>.find({ field: { \$lt: value } })
2. db.<collection\_name>.find({ field: { \$gt: value } })
3. db.<collection\_name>.find({ field: { \$lt: value, \$gt: value } })

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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

- 1.
- 2.
1. db.<collection\_name>.updateOne({ field: value }, { \$set: { new\_field: new\_value } })
2. db.<collection\_name>.updateMany({ field: value }, { \$set: { new\_field: new\_value } })

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2. Delete documents

- 1.
- 2.
1. db.<collection\_name>.deleteOne({ field: value })
2. db.<collection\_name>.deleteMany({ field: value })

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## Aggregation

1. Aggregation pipeline

- 1.
- 2.
- 3.
- 4.
1. db.<collection\_name>.aggregate([

```
2. { $match: { field: value } },  
3. { $group: { _id: "$field", total: { $sum: 1 } } }  
4. }
```

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## 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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