mongosh MongoDB shell

CONCEPTS

mongosh is a JavaScript shell: db is the current database, db.<name> a collection, and any JS works.

Deployment server or cluster
- **Database** db / use <db>
  - **Collection** db.users
    - **Document** BSON object

CONNECT

mongosh
Connect to localhost:27017

mongosh "mongodb://*<host>*:27017/*<db>*"
Connect with a URI

mongosh --host *<host>* --port *<port>* -u *<user>* -p
Connect with options, prompt for password

--eval "*<js>*" *<uri>*
Run JavaScript and exit

mongosh *<uri>* *<file.js>*
Run a script file then exit

exit / quit()
Leave the shell

INSPECT

show dbs
List databases

use *<db>*
Switch database

db
Print the current database name

show collections
List collections

db.*<coll>*.countDocuments({})
Count matching documents

db.*<coll>*.getIndexes()
List indexes

READ

db.*<coll>*.find()
All documents (first batch)

db.*<coll>*.find({ *<field>*: *<value>* })
Match on equality

db.*<coll>*.findOne({ *<filter>* })
First match as one document

db.*<coll>*.find({}, { *<f>*: 1 })
Projection: pick fields

db.*<coll>*.find().sort({ *<f>*: -1 })
Sort, 1 ascending, -1 descending

db.*<coll>*.find().limit(*<n>*)
Cap results; chain .skip(<n>) to page

db.*<coll>*.find(*<filter>*).explain("executionStats")
Show how the query ran

WRITE

db.*<coll>*.insertOne({ *<doc>* })
Insert one document

db.*<coll>*.insertMany([{ }, { }])
Insert several documents

db.*<coll>*.updateOne(*<filter>*, { $set: { *<f>*: *<v>* } })
Change first match

db.*<coll>*.deleteOne(*<filter>*)
Delete first match

db.*<coll>*.deleteMany(*<filter>*)
Delete all matches

AGGREGATION

db.*<coll>*.aggregate([*<stage>*])
Run a pipeline of stages

{ $group: { _id: "$*<f>*", n: { $sum: 1 } } }
Group and count

INDEXES

db.*<coll>*.createIndex({ *<f>*: 1 })
Create an ascending index