



MongoDB Cheat Sheet

By Web Dev Simplified https://courses.webdevsimplified.com

Terminology	
Database	A container for collections. This is the same as a database in SQL and usually each project will have its own database full of different collections.
Collection	A grouping of documents inside of a database. This is the same as a table in SQL and usually each type of data (users, posts, products) will have its own collection.
Document	A record inside of a collection. This is the same as a row in SQL and usually there will be one document per object in the collection. A document is also essentially just a JSON object.
Field	A key value pair within a document. This is the same as a column in SQL. Each document will have some number of fields that contain information such as name, address, hobbies, etc. An important difference between SQL and MongoDB is that a field can contain values such as JSON objects, and arrays instead of just strings, number, booleans, etc.

Basic Commands	
mongosh	Open a connection to your local MongoDB instance. All other commands will be run within this mongosh connection.
show dbs	Show all databases in the current MongoDB instance
use <dbname></dbname>	Switch to the database provided by dbname Switch to myDatabase
db	Show current database name
cls	Clear the terminal screen
show collections	Show all collections in the current database
db.dropDatabase()	Delete the current database
exit	Exit the mongosh session

Complex Update Object

Any combination of the below can be use inside an update object to make complex updates

\$set

Update only the fields passed to \$set. This will not affect any fields not passed to \$set.

Update the name of the first user with the age of 12 to the value Hi

\$inc

db.users.updateOne({ age: 12 }, { \$inc: { age: 2 } })

Increment the value of the field by the amount given

Add 2 to the age of the first user with the age of 12

\$rename

db.users.updateMany({}, { \$rename: { age: "years" } })

Rename a field

Rename the field age to years for all users

Sunset

db.users.updateOne({ age: 12 }, { \$unset: { age: "" } })

Remove a field

Remove the age field from the first user with an age of 12

\$push

db.users.updateMany({}, { \$push: { friends: "John" } })

Add a value to an array field

Add John to the friends array for all users

\$pu11

db.users.updateMany({}, { \$pull: { friends: "Mike" } })

Remove a value from an array field

Remove Mike from the friends array for all users

Read Modifiers

Any combination of the below can be added to the end of any read operation

sort

Sort the results of a find by the given fields

Get all users sorted by name in alphabetical order and then if any names are the same sort by age in reverse order

limit

dh users find() limit(2)

Only return a set number of documents

Only return the first 2 users

skip

db.users.find().skip(4)

Skip a set number of documents from the beginning

Skip the first 4 users when returning results. This is great for pagination when combined with limit.