

Delete

Each of these commands is run on a specific collection

`db.<collectionName>.<command>`

deleteOne

```
db.users.deleteOne({ age: 20 })
```

Delete the first document that matches the filter object

Delete the first user with an age of 20

deleteMany

```
db.users.deleteMany({ age: 12 })
```

Delete all documents that matches the filter object

Delete all users with an age of 12

Complex Filter Object

Any combination of the below can be use inside a filter object to make complex queries

\$eq

```
db.users.find({ name: { $eq: "Kyle" } })
```

Check for equality

Get all users with the name Kyle

\$ne

```
db.users.find({ name: { $ne: "Kyle" } })
```

Check for not equal

Get all users with a name other than Kyle

\$gt / \$gte

```
db.users.find({ age: { $gt: 12 } })
db.users.find({ age: { $gte: 15 } })
```

Check for greater than and greater than or equal to

Get all users with an age greater than 12
Get all users with an age greater than or equal to 15

\$lt / \$lte

```
db.users.find({ age: { $lt: 12 } })
db.users.find({ age: { $lte: 15 } })
```

Check for less than and less than or equal to

Get all users with an age less than 12
Get all users with an age less than or equal to 15

\$in

```
db.users.find({ name: { $in: ["Kyle", "Mike"] } })
```

Check if a value is one of many values

Get all users with a name of Kyle or Mike

\$nin

```
db.users.find({ name: { $nin: ["Kyle", "Mike"] } })
```

Check if a value is none of many values

Get all users that do not have the name Kyle or Mike

\$and

```
db.users.find({ $and: [{ age: 12 }, { name: "Kyle" }] })
db.users.find({ age: 12, name: "Kyle" })
```

Check that multiple conditions are all true

Get all users that have an age of 12 and the name Kyle
This is an alternative way to do the same thing. Generally you do not need \$and.

\$or

```
db.users.find({ $or: [{ age: 12 }, { name: "Kyle" }] })
```

Check that one of multiple conditions is true

Get all users with a name of Kyle or an age of 12

\$not

```
db.users.find({ name: { $not: { $eq: "Kyle" } } })
```

Negate the filter inside of \$not

Get all users with a name other than Kyle

\$exists

```
db.users.find({ name: { $exists: true } })
```

Check if a field exists

Get all users that have a name field

\$expr

```
db.users.find({ $expr: { $gt: ["$balance", "$debt"] } })
```

Do comparisons between different fields

Get all users that have a balance that is greater than their debt



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>

use myDatabase

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