# **MongoDB Cheat Sheet 2022**

a) Check 'monosh' Version

mongosh --version

b) Start the Mongo Shell

mongosh "YOUR\_CONNECTION\_STRING" --username YOUR\_USER\_NAME

c) Show Current Database

Db

d) Show All Databases

show dbs

e) Create Or Switch Database

use blog

db.stats() // return a document that reports on the state of the current database.

f) Drop Database

db.dropDatabase()
db.myCollection.drop() //Drop a collection

g) Create Collection

db.createCollection('posts') //Create Collection randomly without Schema Validation.

db.createCollection('posts', {validator: {\$jsonSchema: {bsonType: "object", required: ["title", "text", "creator"], properties} }}) // Create Collection using \$\frac{\\$jsonSchema Validation}{\}}

**NB>** To add document validation to an existing collection, use <u>collMod</u> command with the <u>validator option</u>, ie;

db.runCommand({collMod: 'posts', validator: {\$jsonSchema: {bsonType: "object", required: ["title", "text", "creator"], properties} }})

#### h) Show Collections

show collections

#### i) Insert Document

```
db.posts.insertOne({
title: 'Post 1',
  body: 'Body of post.',
  category: 'News',
  likes: 1,
  tags: ['news', 'events'],
  date: Date()
})
```

#### j) Insert Multiple Documents

```
category: 'Tech',
  likes: 3,
  tags: ['news', 'events'],
  date: Date()
 },
 {
  title: 'Post 4',
  body: 'Body of post.',
  category: 'Event',
  likes: 4,
  tags: ['news', 'events'],
  date: Date()
 },
 {
  title: 'Post 5',
  body: 'Body of post.',
  category: 'News',
  likes: 5,
  tags: ['news', 'events'],
  date: Date()
 }
])
```

#### k) Find All Documents

```
db.posts.find() //Displays the first $20 documents according to MongoDB Shell.db.posts.find().pretty() //Display data in a good format.Db.posts.find().toArray() //Displays all the documents in an array.
```

#### I) Find Documents with Query

```
db.posts.find({ category: 'News' })
```

#### m) Sort Documents

### **db.collection.aggregate()** >> aggregation operations process the data records/documents and return computed results. It collects values from various documents and groups them together and then performs different types of operations on that grouped data like sum, average, minimum, maximum, etc to return a computed result. It is similar to the aggregate function of SQL.

n) Count Documents

```
db.posts.find().count()
db.posts.find({ category: 'news' }).count()
```

o) Limit Documents

```
db.posts.find().limit(2)
```

p) Chaining

```
db.posts.find().limit(2).sort({ title: 1 })
```

q) Find One Document

```
db.posts.findOne({ likes: { $gt: 3 } })
```

r) Update Document

```
db.posts.updateOne({ title: 'Post 1' },
{
```

```
$set: {
  category: 'Tech'
}
})
```

#### s) Update Document or Insert if not Found

```
db.posts.updateOne({ title: 'Post 6' },
{
    $set: {
     title: 'Post 6',
     body: 'Body of post.',
     category: 'News'
    }
},
{
    upsert: true
})
```

### t) Increment Field (`\$inc`)

```
db.posts.updateOne({ title: 'Post 1' },
{
    $inc: {
    likes: 2
    }
})
```

## u) Update Multiple Documents

```
db.posts.updateMany({}, {
    $inc: {
```

```
likes: 1
             }
            })
v) Rename Field
            db.posts.updateOne({ title: 'Post 2' },
            {
             $rename: {
              likes: 'views'
             }
            })
w) Delete a Document
            db.posts.deleteOne({ title: 'Post 6' })
x) Delete Multiple Documents
            db.posts.deleteMany({ category: 'Tech' })
y) Greater & Less Than
            db.posts.find({ views: { $gt: 2 } })
            db.posts.find({ views: { $gte: 7 } })
            db.posts.find({ views: { $It: 7 } })
```

db.posts.find({ views: { \$lte: 7 } })

https://gist.github.com/mourice-oduor/04f188b2ee0c0087e1f86d7756439211