

MongoDB Cheat Sheet

Show All Databases:

```
show dbs
```

Show Current Database:

```
db
```

Create Or Switch Database:

```
use <databasename>
```

Drop:

```
db.dropDatabase()
```

Create Collection:

```
db.createCollection('posts')
```

Show Collections:

```
show collections
```

Insert Row:

```
db.posts.insert({
  title: 'Post One',
  body: 'Body of post one',
  category: 'News',
  tags: ['news', 'events'],
  user: {
    name: 'John Doe',
    status: 'author'
  },
  date: Date()
})
```

Insert Multiple Rows:

```
db.posts.insertMany([
  {
    title: 'Post Two',
    body: 'Body of post two',
    category: 'Technology',
    date: Date()
  },
  {
    title: 'Post Three',
    body: 'Body of post three',
    category: 'News',
    date: Date()
  },
  {
    title: 'Post Four',
    body: 'Body of post three',
    category: 'Entertainment',
    date: Date()
  }
])
```

Get All Rows:

```
db.posts.find()
```

Get All Rows Formatted:

```
db.find().pretty()
```

Find Rows:

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

Sort Rows:

Ascending

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

Descending

```
db.posts.find().sort({ title: -1 }).pretty()
```

Count Rows:

```
db.posts.find().count()
```

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

Limit Rows:

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

Chaining:

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

Foreach:

```
db.posts.find().forEach(function(doc) {  
    print("Blog Post: " + doc.title)  
})
```

Find One Row:

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

Find Specific Fields:

```
db.posts.find({ title: 'Post One' }, {  
    title: 1,  
    author: 1  
})
```

Update Row:

```
db.posts.update({ title: 'Post Two' },  
{  
    title: 'Post Two',  
    body: 'New body for post 2',  
    date: Date()  
},  
{  
    upsert: true  
})
```

Update Specific Field:

```
db.posts.update({ title: 'Post Two' },  
{  
  $set: {  
    body: 'Body for post 2',  
    category: 'Technology'  
  }  
})
```

Increment Field (\$inc):

```
db.posts.update({ title: 'Post Two' },  
{  
  $inc: {  
    likes: 5  
  }  
})
```

Rename Field:

```
db.posts.update({ title: 'Post Two' },  
{  
  $rename: {  
    likes: 'views'  
  }  
})
```

Delete Row:

```
db.posts.remove({ title: 'Post Four' })
```

Sub-Documents:

```
db.posts.update({ title: 'Post One' },
{
  $set: {
    comments: [
      {
        body: 'Comment One',
        user: 'Mary Williams',
        date: Date()
      },
      {
        body: 'Comment Two',
        user: 'Harry White',
        date: Date()
      }
    ]
  }
})
```

Find By Element in Array (\$elemMatch):

```
db.posts.find({
  comments: {
    $elemMatch: {
      user: 'Mary Williams'
    }
  }
})
```

Add Index:

```
db.posts.createIndex({ title: 'text' })
```

Text Search:

```
db.posts.find({
  $text: {
    $search: "\"Post O\""
  }
})
```

Greater & Less Than:

```
db.posts.find({ views: { $gt: 2 } })
db.posts.find({ views: { $gte: 7 } })
db.posts.find({ views: { $lt: 7 } })
db.posts.find({ views: { $lte: 7 } })
```