

```
# MongoDB Cheat Sheet

## Show All Databases
```
show dbs
```

## Show Current Database
```
db
```

## Create Or Switch Database
```
use acme
```

## 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.posts.find().pretty()
)

## Find Rows
...

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

## Sort Rows
...

# asc
db.posts.find().sort({ title: 1 }).pretty()
# desc
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 0\""
  }
})
...
```

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 } })
...
```