

# MongoDB Cheat Sheet



## Show All Databases

`show dbs`

## Show Current Database

`db`

## Create Or Switch Database

`use acme`

## Drop Database

`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 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 } })
```

