

# MongoDB Cheat Sheet

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## 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

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```
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 } })
```