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# BASICS
#
*****
*****

# Connect MongoDB Shell
mongo # connects to mongodb://127.0.0.1:27017 by default
mongo --host <host> --port <port> -u <user> -p <pwd> # omit the
password if you want a prompt

# Show All Databases
show dbs

# Show Current Database
db

# Create Or Switch Database
use <database_name>

# Drop Database
db.dropDatabase()

# Create Collection
db.createCollection('posts')

# Show Collections
show collections

#
*****
*****
# CRUD
#
*****
*****

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

```
# Find Rows
db.posts.find({ 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'  
  }  
})
```

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

```
#  
*****  
*****  
# OTHER FUNCTIONS  
#  
*****  
*****
```

```
# Sort Rows  
db.posts.find().sort({ title: 1 }).pretty() # asc  
db.posts.find().sort({ title: -1 }).pretty() # desc
```

```
# 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)  
})
```

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

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

```
# Rename Field
```

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

```
# 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: 1 })
```

```
# Drop Index
db.posts.dropIndex("title_1")
```

```
# Hide/Unhide Indexes
db.posts.hideIndex("title_1")
db.posts.unhideIndex("title_1")
```

```
# 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 } })
```