Connect MongoDB Shell

Connects to

mongodb://127.0.0.1:27017 by default

mongo

Connect to local network

mongo "mongodb://192.168.1.1:27017"

Connect to MongoDB Atlas

mongo "mongodbURI" --username <username>

Database Operation

Show All Databases

show dbs

Show Current Database

db

Create / Switch to new Database

use jsmasterypro

Database Operation

Delete Database

db.dropDatabase()

Collections

Show all collections of current DB

show collections

Create new Collection

db.createCollection('courses')

Create Documents

Insert one document

```
db.courses.insertOne({
   name: "Ultimate React",
   price: 50
})
```

```
db.courses.insert({
   name: "Ultimate React",
   price: 50
})
```

Create Documents

Insert multiple document

```
db.courses.insert(
  {
    name: "Ultimate React",
    price: 50
  },
    name: "Complete path to JSM",
    price: 80
```

Read Documents

Find one document

db.courses.findOne()

Find multiple documents

db.courses.find()

Find Multiple documents with json

db.courses.find().pretty()

Read Documents

Find documents by field value

```
db.courses.find({
    "name": "Ultimate React"
})
```

Find By Element in Array

Update Documents

Update one

```
db.courses.updateOne(
    {"_id": 1},
    {$set:
        {"name": "Ultimate React.js"}
    }
)
```

Update Multiple

```
db.courses.update(
    {"price": 50},
    {$set: {"price": 49}}
)
```

Update Documents

Increment Field Value

```
db.courses.update(
    {"_id": 2},
    {$inc: {"views": 109}}
)
```

Rename Field

```
db.courses.updateOne(
    { _id: 3 },
    { $rename:
        {'views': 'likes'}
})
```

Update Documents

Update Sub-Documents

```
db.courses.update(
 { "name": "Ultimate React.js" },
 comments:
       "user": "Michael",
       "body": "Comment One",
       "user": "Angelia",
       "body": "Comment Two",
}})
```

Delete Documents

Delete a document

Count

Returns the count of documents

```
db.courses.find().count()
```

Returns the count of documents that would match a find() query

```
db.courses.find({
  views: 110
}).count()
```

Sorting

Ascending order

Descending order

```
db.courses.find.sort(
    { name: -1 }
).pretty()
```

Results by Pagination

Skip 7 results

```
db.courses.find({}).skip(7)
```

Fetch only 4 results

```
db.courses.find({}).limit(4)
```

Results by Pagination

Sort by name, Skip first 7 results, fetch only next 4 documents

```
db.courses.find({}).sort({
    "name": 1
}).skip(7).limit(4)
```

Add Index

Create Index on single field

Create compound Index

Drop Index

Drop Index

```
db.courses.dropIndex("name_1")
```

Text Search

Create Text Index on field

```
db.courses.createIndex(
     {content: "text"}
)
```

Search by Text

Find by range query

find courses where views are greater than 70

```
db.courses.find({
    'views': { '$gt': 70 }
})
```

find courses where views are greater than or equal to 70

```
db.courses.find({
   'views' : { '$gte' : 70 }
})
```

Find by range query

find courses where views are less than 70

```
db.courses.find({
    'views' : { '$lt' : 70 }
})
```

find courses where views are less than or equal to 70

```
db.courses.find({
    'views' : { '$lte' : 70 }
})
```