

// Roles:

```
> db.createUser({user:'durvesh2',pwd:'durvesh2',roles:[{role:'readWrite',db:'doorways'}]})
```

Successfully added user: {

```
  "user" : "durvesh2",
  "roles" : [
    {
      "role" : "readWrite",
      "db" : "doorways"
    }
  ]
}
```

// CRUD

```
> db.students.insert({roll:12,name:'durvesh',city:'nashik'})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.students.insertMany([{roll:12,name:'durvesh',city:'nashik'},{roll:15,name:'atharva',city:'pune'},{roll:18,name:'aditi',city:'pune'},{roll:21,name:'divyank',city:'aurangabad'},{roll:24,name:'eesha',city:'pune'}])
```

```
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5f8fd31299f85e62679c797b"),
    ObjectId("5f8fd31299f85e62679c797c"),
    ObjectId("5f8fd31299f85e62679c797d"),
    ObjectId("5f8fd31299f85e62679c797e"),
    ObjectId("5f8fd31299f85e62679c797f")
  ]
}
```

```
> db.students.find()
```

```
{ "_id" : ObjectId("5f8fd24c99f85e62679c797a"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
```

```
{ "_id" : ObjectId("5f8fd31299f85e62679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
```

```
{ "_id" : ObjectId("5f8fd31299f85e62679c797c"), "roll" : 15, "name" : "atharva", "city" : "pune" }
```

```

{ "_id" : ObjectId("5f8fd31299f85e62679c797d"), "roll" : 18, "name" : "aditi", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797e"), "roll" : 21, "name" : "divyank", "city" :
"aurangabad" }

{ "_id" : ObjectId("5f8fd31299f85e62679c797f"), "roll" : 24, "name" : "eesha", "city" : "pune" }

>
>
>
> db.students.update({roll:12},{ $set:{name:'Durvesh'}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.students.find()

{ "_id" : ObjectId("5f8fd24c99f85e62679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797c"), "roll" : 15, "name" : "atharva", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797d"), "roll" : 18, "name" : "aditi", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797e"), "roll" : 21, "name" : "divyank", "city" :
"aurangabad" }

{ "_id" : ObjectId("5f8fd31299f85e62679c797f"), "roll" : 24, "name" : "eesha", "city" : "pune" }

> db.students.updateMany({city:'pune'},{$set:{city:'PUNE'}})

{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }

> db.students.find()

{ "_id" : ObjectId("5f8fd24c99f85e62679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797e"), "roll" : 21, "name" : "divyank", "city" :
"aurangabad" }

{ "_id" : ObjectId("5f8fd31299f85e62679c797f"), "roll" : 24, "name" : "eesha", "city" : "PUNE" }


> db.students.remove({roll:{$gt:18}})

WriteResult({ "nRemoved" : 2 })

> db.students.find()

```

```

{ "_id" : ObjectId("5f8fd24c99f85e62679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }

> db.students.remove({name:'durvesh'})

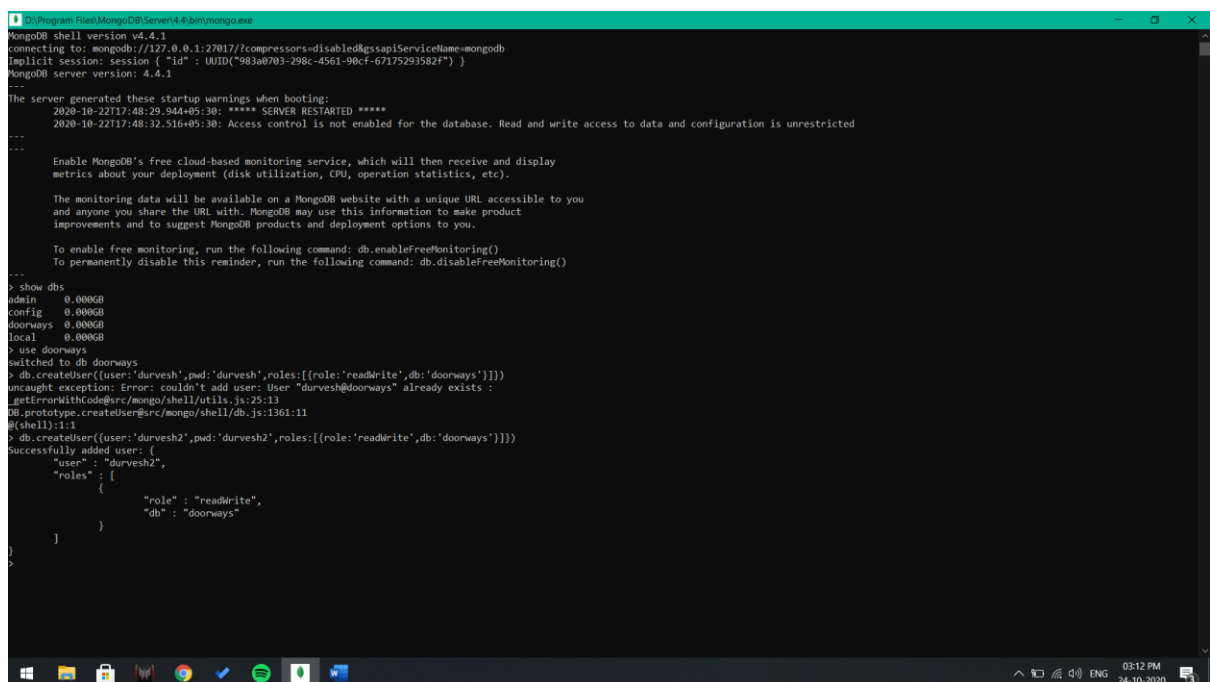
WriteResult({ "nRemoved" : 1 })

> db.students.find()

{ "_id" : ObjectId("5f8fd24c99f85e62679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e62679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }

```

// Outputs



```

D:\Program Files\MongoDB\Server\4.4\bin\mongo.exe
MongoDB shell version v4.4.1
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("983a0703-298c-4561-90cf-6717529582f") }
MongoDB server version: 4.4.1
...
The server generated these startup warnings when booting:
  2020-10-22T17:48:29.944+05:30: ***** SERVER RESTARTED *****
  2020-10-22T17:48:32.516+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
...
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
...
> use db
switched to db
> show dbs
admin      0.000GB
config     0.000GB
doorways   0.000GB
local      0.000GB
> use doorways
switched to db doorways
> db.createUser({user:'durvesh',pwd:'durvesh',roles:[{role:'readWrite',db:'doorways'}]})
uncaught exception: Error: couldn't add user: User "durvesh@doorways" already exists :
_getErrorWithCode@src/mongo/shell/utils.js:25:13
DB.prototype.createUser@src/mongo/shell/db.js:1361:11
@(shell):1:1
> db.createUser({user:'durvesh2',pwd:'durvesh2',roles:[{role:'readWrite',db:'doorways'}]})
Successfully added user: {
  "user" : "durvesh2",
  "roles" : [
    {
      "role" : "readWrite",
      "db" : "doorways"
    }
  ]
}
>

```

```
C:\WINDOWS\system32\cmd.exe - mongo

> use doorways
switched to db doorways
> db.students.insert([roll:12,name:'durvesh',city:'nashik'])
WriteResult({ "nInserted" : 1 })
> db.students.insertMany([roll:12,name:'durvesh',city:'nashik'],[roll:15,name:'atharva',city:'pune'],[roll:18,name:'aditi',city:'pune'],[roll:21,name:'divyank',city:'aurangabad'],[roll:24,name:'eesha',city:'pune']])
uncaught exception: SyntaxError: missing ) after argument list
g(shell):1:213
> db.students.insertMany([roll:12,name:'durvesh',city:'nashik'],[roll:15,name:'atharva',city:'pune'],[roll:18,name:'aditi',city:'pune'],[roll:21,name:'divyank',city:'aurangabad'],[roll:24,name:'eesha',city:'pune']])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5f8fd31299f85e2679c797b"),
    ObjectId("5f8fd31299f85e2679c797c"),
    ObjectId("5f8fd31299f85e2679c797d"),
    ObjectId("5f8fd31299f85e2679c797e"),
    ObjectId("5f8fd31299f85e2679c797f")
  ]
}
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797e"), "roll" : 21, "name" : "divyank", "city" : "aurangabad" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797f"), "roll" : 24, "name" : "eesha", "city" : "pune" }
>
>
> db.students.update(roll:12,{set:{name:'Durvesh'}})
WriteResult({ "matched" : 1, "nInserted" : 0, "nModified" : 1 })
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797e"), "roll" : 21, "name" : "divyank", "city" : "aurangabad" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797f"), "roll" : 24, "name" : "eesha", "city" : "pune" }
> db.students.updateMany(city:'pune',{set:{city:city.toUpperCase()}})
uncaught exception: ReferenceError: city is not defined
g(shell):1:45
> db.students.updateMany(city:'pune',{set:{city:'PUNE'}})
{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797e"), "roll" : 21, "name" : "divyank", "city" : "aurangabad" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797f"), "roll" : 24, "name" : "eesha", "city" : "PUNE" }
> db.remove(roll:$gt:18)
{
}
```

```
C:\WINDOWS\system32\cmd.exe - mongo

>
>
> db.students.update(roll:12,{set:{name:'Durvesh'}})
WriteResult({ "matched" : 1, "nInserted" : 0, "nModified" : 1 })
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "pune" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797e"), "roll" : 21, "name" : "divyank", "city" : "aurangabad" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797f"), "roll" : 24, "name" : "eesha", "city" : "pune" }
> db.students.updateMany(city:'pune',{set:{city:city.toUpperCase()}})
uncaught exception: ReferenceError: city is not defined
g(shell):1:45
> db.students.updateMany(city:'pune',{set:{city:'PUNE'}})
{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797e"), "roll" : 21, "name" : "divyank", "city" : "aurangabad" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797f"), "roll" : 24, "name" : "eesha", "city" : "PUNE" }
> db.remove(roll:$gt:18)
uncaught exception: TypeError: db.remove is not a function
g(shell):1:1
> db.students.remove(roll:$gt:18)
WriteResult({ "nRemoved" : 2 })
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797b"), "roll" : 12, "name" : "durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }
> db.students.remove(name:'durvesh')
WriteResult({ "nRemoved" : 1 })
> db.students.find()
{ "_id" : ObjectId("5f8fd24c99f85e2679c797a"), "roll" : 12, "name" : "Durvesh", "city" : "nashik" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797c"), "roll" : 15, "name" : "atharva", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797d"), "roll" : 18, "name" : "aditi", "city" : "PUNE" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797e"), "roll" : 21, "name" : "divyank", "city" : "aurangabad" }
{ "_id" : ObjectId("5f8fd31299f85e2679c797f"), "roll" : 24, "name" : "eesha", "city" : "pune" }
> db.students.insertMany([roll:35,name:'swatej',city:'mumbai'],[roll:40,name:'utkarsh',city:'mumbai'],[roll:21,name:'divyank',city:'aurangabad'],[roll:24,name:'eesha',city:'pune']])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5f8fd8da99f85e2679c7980"),
    ObjectId("5f8fd8da99f85e2679c7981"),
    ObjectId("5f8fd8da99f85e2679c7982"),
    ObjectId("5f8fd8da99f85e2679c7983")
  ]
}
>
```