

## CREATING COLLECTION

```
Command Prompt - mongo
2019-12-12T02:59:53.763+0530 I CONTROL [initandlisten] **      Read and write access to data and configuration is u
nrestricted.
2019-12-12T02:59:53.763+0530 I CONTROL [initandlisten]
---
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()
---
> db
test
> show dbs;
admin          0.000GB
blogs          0.000GB
config         0.000GB
local          0.000GB
reactBlogger   0.000GB
stocks         0.004GB
webProjTest1   0.000GB
> use AUAsst
switched to db AUAsst
> db.createCollection('games')
{ "ok" : 1 }
>
```

## ADDING 5 GAMES

```
> use AUAsst
switched to db AUAsst
> db.createCollection('games')
{ "ok" : 1 }
> db.games.insertMany([
... {
...   name: "NFS Most Wanted",
...   genre: "Racing",
...   rating: 90
... },
... {
...   name: "GTA San andreas",
...   genre: "Action-adventure",
...   rating: 85
... },
... {
...   name: "Counter Strike 1.6",
...   genre: "Action",
...   rating: 95
... },
... {
...   name: "Call of Duty: Black Ops",
...   genre: "Action",
...   rating: 97
... },
... {
...   name: "Hitman Blood Money",
...   genre: "Action",
...   rating: 80
... }
... ]);
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5e1eb2221979e057f667fc87"),
    ObjectId("5e1eb2221979e057f667fc88"),
    ObjectId("5e1eb2221979e057f667fc89"),
    ObjectId("5e1eb2221979e057f667fc8a"),
    ObjectId("5e1eb2221979e057f667fc8b")
  ]
}
```

## QUERYING ALL GAMES

```
> db.games.find({})
{ "_id" : ObjectId("5e1eb2221979e057f667fc87"), "name" : "NFS Most Wanted", "genre" : "Racing", "rating" : 90 }
{ "_id" : ObjectId("5e1eb2221979e057f667fc88"), "name" : "GTA San andreas", "genre" : "Action-adventure", "rating" : 85 }
{ "_id" : ObjectId("5e1eb2221979e057f667fc89"), "name" : "Counter Strike 1.6", "genre" : "Action", "rating" : 95 }
{ "_id" : ObjectId("5e1eb2221979e057f667fc8a"), "name" : "Call of Duty: Black Ops", "genre" : "Action", "rating" : 97 }
{ "_id" : ObjectId("5e1eb2221979e057f667fc8b"), "name" : "Hitman Blood Money", "genre" : "Action", "rating" : 80 }
```

## FINDONE, LIMIT AND SORT

```
> db.games.findOne({name:'NFS Most Wanted'})
{
  "_id" : ObjectId("5e1eb2221979e057f667fc87"),
  "name" : "NFS Most Wanted",
  "genre" : "Racing",
  "rating" : 90
}
> db.games.find({name:'NFS Most Wanted'}).limit(1)
{ "_id" : ObjectId("5e1eb2221979e057f667fc87"), "name" : "NFS Most Wanted", "genre" : "Racing", "rating" : 90 }
> db.games.find().sort({rating:-1}).limit(3)
{ "_id" : ObjectId("5e1eb2221979e057f667fc8a"), "name" : "Call of Duty: Black Ops", "genre" : "Action", "rating" : 97 }
{ "_id" : ObjectId("5e1eb2221979e057f667fc89"), "name" : "Counter Strike 1.6", "genre" : "Action", "rating" : 95 }
{ "_id" : ObjectId("5e1eb2221979e057f667fc87"), "name" : "NFS Most Wanted", "genre" : "Racing", "rating" : 90 }
```

## UPDATE

```
> db.games.update( { $or: [{name: "GTA San andreas"}, {name: "Counter Strike 1.6"}]}, { $set: { achievements: ["Game Master", "Speed Daemon"] } }, { multi: true } );
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
> db.games.find({}).pretty()
{
  "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed1"),
  "name" : "NFS Most Wanted",
  "genre" : "Racing",
  "rating" : 90

  "achievements" : [
    "Game Master",
    "Speed Daemon"
  ]

  "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed2"),
  "name" : "GTA San andreas",
  "genre" : "Action-adventure",
  "rating" : 85,
  "achievements" : [
    "Game Master",
    "Speed Daemon"
  ]

  "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed3"),
  "name" : "Counter Strike 1.6",
  "genre" : "Action",
  "rating" : 95,
  "achievements" : [
    "Game Master",
    "Speed Daemon"
  ]

  "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed4"),
  "name" : "Call of Duty: Black Ops",
  "genre" : "Action",
```

## FINDING GAMES HAVING BOTH GAME MASTER AND SPEED DAEMON

```
> db.games.find({achievements: {$all: ["Game Master", "Speed Daemon"]}});
{ "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed2"), "name" : "GTA San andreas", "genre" : "Action-adventure", "rating" : 85, "achievements" : [ "Game Master", "Speed Daemon" ] }
{ "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed3"), "name" : "Counter Strike 1.6", "genre" : "Action", "rating" : 95, "achievements" : [ "Game Master", "Speed Daemon" ] }
```

## FINDING GAMES WHICH HAVE ACHIEVEMENTS

```
> db.games.find({achievements: {$exists: true}}).pretty();
{
  "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed2"),
  "name" : "GTA San andreas",
  "genre" : "Action-adventure",
  "rating" : 85,
  "achievements" : [
    "Game Master",
    "Speed Daemon"
  ]
}

{
  "_id" : ObjectId("5e1ec8e9f06d25a4bef14ed3"),
  "name" : "Counter Strike 1.6",
  "genre" : "Action",
  "rating" : 95,
  "achievements" : [
    "Game Master",
    "Speed Daemon"
  ]
}
```