

Mayank Gangrade

Fall 2019

```
> use gamedb
switched to db gamedb
>
> db.createCollection("games")
{ "ok" : 1 }
>
> show collections()
2019-09-22T16:29:45.505-0400 E QUERY [js] Error: don't know how to show [collections()] :
shellHelper.show@src/mongo/shell/utils.js:1139:11
shellHelper@src/mongo/shell/utils.js:790:15
@(shellhelp2):1:1
> show collections
games
```

```
> db.games.insertMany([
... { name: "Super Mario 3D Land", genre: "Action", rating: 20},
... { name: "Fifa 19", genre: "Sports", rating: 40},
... { name: "PUBG", genre: "Battle", rating: 95},
... { name: "The Legend of Zelda", genre: "Action-adventure", rating: 80},
... { name: "Night Driver,", genre: "Racing", rating: 60},
... { name: "Super Man", genre: "Action", rating: 30},
... { name: "Cricket", genre: "Sports", rating: 93},
... { name: "MK 11", genre: "Battle", rating: 98},
... { name: "The Legend", genre: "Action-adventure", rating: 76},
... { name: "Bike race,", genre: "Racing", rating: 90},
... ])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5d87d9f411288e3d900f9ba9"),
    ObjectId("5d87d9f411288e3d900f9baa"),
    ObjectId("5d87d9f411288e3d900f9bab"),
    ObjectId("5d87d9f411288e3d900f9bac"),
    ObjectId("5d87d9f411288e3d900f9bad"),
    ObjectId("5d87d9f411288e3d900f9bae"),
    ObjectId("5d87d9f411288e3d900f9baf"),
    ObjectId("5d87d9f411288e3d900f9bb0"),
    ObjectId("5d87d9f411288e3d900f9bb1"),
    ObjectId("5d87d9f411288e3d900f9bb2")
  ]
}
```

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```
> db.games.find()
{ "_id" : ObjectId("5d87d9f411288e3d900f9ba9"), "name" : "Super Mario 3D Land", "genre" : "Action", "rating" : 20 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9baa"), "name" : "Fifa 19", "genre" : "Sports", "rating" : 40 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bab"), "name" : "PUBG", "genre" : "Battle", "rating" : 95 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bac"), "name" : "The Legend of Zelda", "genre" : "Action-adventure", "rating" : 80 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bad"), "name" : "Night Driver", "genre" : "Racing", "rating" : 60 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bae"), "name" : "Super Man", "genre" : "Action", "rating" : 30 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9baf"), "name" : "Cricket", "genre" : "Sports", "rating" : 93 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb0"), "name" : "MK 11", "genre" : "Battle", "rating" : 98 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb1"), "name" : "The Legend", "genre" : "Action-adventure", "rating" : 76 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb2"), "name" : "Bike race", "genre" : "Racing", "rating" : 90 }
```

```
> db.games.findOne()
{
  "_id" : ObjectId("5d87d9f411288e3d900f9ba9"),
  "name" : "Super Mario 3D Land",
  "genre" : "Action",
  "rating" : 20
}
```

```
> db.games.find().sort({rating: -1}).limit(3)
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb0"), "name" : "MK 11", "genre" : "Battle", "rating" : 98 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bab"), "name" : "PUBG", "genre" : "Battle", "rating" : 95 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9baf"), "name" : "Cricket", "genre" : "Sports", "rating" : 93 }
```

```
> db.games.find({name: "PUBG"})
{ "_id" : ObjectId("5d87d9f411288e3d900f9bab"), "name" : "PUBG", "genre" : "Battle", "rating" : 95, "achievements" : [ "Game Master", "Speed Demon" ] }
```

```
> db.games.update({name: "Fifa 19"},{$set: {"achievements":["Game Master","Speed Demon"]}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.games.update({name: "PUBG"},{$set: {"achievements":["Game Master","Speed Demon"]}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.games.find()
{ "_id" : ObjectId("5d87d9f411288e3d900f9ba9"), "name" : "Super Mario 3D Land", "genre" : "Action", "rating" : 20 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9baa"), "name" : "Fifa 19", "genre" : "Sports", "rating" : 40, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bab"), "name" : "PUBG", "genre" : "Battle", "rating" : 95, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bac"), "name" : "The Legend of Zelda", "genre" : "Action-adventure", "rating" : 80 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bad"), "name" : "Night Driver", "genre" : "Racing", "rating" : 60 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bae"), "name" : "Super Man", "genre" : "Action", "rating" : 30 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9baf"), "name" : "Cricket", "genre" : "Sports", "rating" : 93 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb0"), "name" : "MK 11", "genre" : "Battle", "rating" : 98 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb1"), "name" : "The Legend", "genre" : "Action-adventure", "rating" : 76 }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb2"), "name" : "Bike race", "genre" : "Racing", "rating" : 90 }

> db.games.save({ "_id" : ObjectId("5d87d9f411288e3d900f9bb1"), "name" : "The Legend", "genre" : "Action-adventure", "rating" : 76, "achievements" : [ "Game Master", "Speed Demon" ] })
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.games.save({ "_id" : ObjectId("5d87d9f411288e3d900f9bb2"), "name" : "Bike race", "genre" : "Racing", "rating" : 90, "achievements" : [ "Game Master", "Speed Demon" ] })
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

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```
> db.games.find({achievements: {$in: ["Game Master", "Speed Demon"]}})
{ "_id" : ObjectId("5d87d9f411288e3d900f9baa"), "name" : "Fifa 19", "genre" : "Sports", "rating" : 40, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bab"), "name" : "PUBG", "genre" : "Battle", "rating" : 95, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb1"), "name" : "The Legend", "genre" : "Action-adventure", "rating" : 76, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb2"), "name" : "Bike race,", "genre" : "Racing", "rating" : 90, "achievements" : [ "Game Master", "Speed Demon" ] }
>
>
> db.games.find({achievements: {$exists: true}})
{ "_id" : ObjectId("5d87d9f411288e3d900f9baa"), "name" : "Fifa 19", "genre" : "Sports", "rating" : 40, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bab"), "name" : "PUBG", "genre" : "Battle", "rating" : 95, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb1"), "name" : "The Legend", "genre" : "Action-adventure", "rating" : 76, "achievements" : [ "Game Master", "Speed Demon" ] }
{ "_id" : ObjectId("5d87d9f411288e3d900f9bb2"), "name" : "Bike race,", "genre" : "Racing", "rating" : 90, "achievements" : [ "Game Master", "Speed Demon" ] }
>
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