

SESSION -III

MongoDB shell version v3.6.8

connecting to: mongod://127.0.0.1:27017

Implicit session: session { "id" : UUID("94f0a30c-f5b3-4664-93d0-6748f3ad97f6") }

MongoDB server version: 3.6.8

Server has startup warnings:

2021-07-11T13:10:37.202+0530 I STORAGE [initandlisten]

2021-07-11T13:10:37.202+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine

2021-07-11T13:10:37.202+0530 I STORAGE [initandlisten]

** See <http://dochub.mongodb.org/core/prodnotes-filesystem>

2021-07-11T13:10:38.739+0530 I CONTROL [initandlisten]

2021-07-11T13:10:38.739+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.

2021-07-11T13:10:38.739+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.

2021-07-11T13:10:38.739+0530 I CONTROL [initandlisten]

> show dbs;

admin 0.000GB

bd 0.000GB

bookdb 0.000GB

config 0.000GB

local 0.000GB

myDb 0.000GB

test 0.000GB

> use bdb;

switched to db bdb

> db.createCollection("Books");

{ "ok" : 1 }

> db.Books.insertMany([

...

... "Name":"Tom Jones", "Series":"yes", "Year":2000, "Category":["Mystery","Comedy"],
"Price":230, "Authors":["Henry","Fielding"], "Available_in":["USA","UK","INDIA"] }, {

...

... "Name":"Jungle Book", "Series":"No", "Year":2007, "Category":["Adventures","Comedy"],
"Price":280, "Authors":["Rudyard","Kipling"], "Available_in":["USA","UK"] }, {

...

...

...

... "Name":"Pride and Prejudice", "Series":"Yes", "Year":2001,
"Category":["Thriller","Comedy"], "Price":140, "Authors":["Jane","Austin"],
"Available_in":["UK","INDIA"] }, {

...

...

...

... "Name":"War and Peace", "Series":"Yes", "Year":1993, "Category":["Thriller"], "Price":90,
"Authors":["Tolstoy"] }, {

...

...

...

```

... "Name":"Red and Black", "Series":"Yes", "Year":1999, "Category":["Thriller","Fantasy"],
"Price":128, "Authors":["Stendhal"], "Available_in":["UK","UK","Germany"] }, {
...
...
... "Name":"Seven
dwarfs", "Series":"Yes", "Year":1999, "Category":["Comedy"], "Price":128, "Authors":["John", "Pa
ul"], "Available_in":["US", "UK", "Russia"] }, {
...
... "Name":"Alice in wonderland", "Series":"Yes", "Year":2001, "Category":["Fantasy"],
"Price":99, "Authors":["Lewis", "Carrol"], "Available_in":["US", "UK", "INDIA"] }, {
...
... "Name":"Time Machine", "Series":"Yes", "Year":2003, "Category":["Thriller"], "Price":99,
"Authors":["H.G.Wells"], "Available_in":["INDIA"]
...
... }, { "Name":"SherlockHomles", "Series":"Yes", "Year":2005,
...
... "Category":["Thriller"], "Price":150, "Authors":["Arthur Conan
Doyle"], "Available_in":["INDIA", "UK"]
...
... },
{"Name":"Lolita", "Series":"No", "Year":1993, "Category":["Journal"], "Price":70, "Authors":["Stev
enson", "paul"],
...
... "Available_in":["INDIA", "Sweden"]}]})
{
"acknowledged" : true,
"insertedIds" : [
ObjectId("60eaa4149b4d4a15342a29ce"),
ObjectId("60eaa4149b4d4a15342a29cf"),
ObjectId("60eaa4149b4d4a15342a29d0"),
ObjectId("60eaa4149b4d4a15342a29d1"),
ObjectId("60eaa4149b4d4a15342a29d2"),
ObjectId("60eaa4149b4d4a15342a29d3"),
ObjectId("60eaa4149b4d4a15342a29d4"),
ObjectId("60eaa4149b4d4a15342a29d5"),
ObjectId("60eaa4149b4d4a15342a29d6"),
ObjectId("60eaa4149b4d4a15342a29d7")
]
}

```

1. Find out the total number of books which is having price <200\$

```

> db.Books.find({Price:{< 200}}).count();
8
> db.Books.find({Price:{< 200}}).pretty();
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d0"),
  "Name" : "Pride and Prejudice",
  "Series" : "Yes",
  "Year" : 2001,

```

```
"Category" : [
  "Thriller",
  "Comedy"
],
"Price" : 140,
"Authors" : [
  "Jane",
  "Austin"
],
"Available_in" : [
  "UK",
  "INDIA"
]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d1"),
  "Name" : "War and Peace",
  "Series" : "Yes",
  "Year" : 1993,
  "Category" : [
    "Thriller"
  ],
  "Price" : 90,
  "Authors" : [
    "Tolstoy"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d2"),
  "Name" : "Red and Black",
  "Series" : "Yes",
  "Year" : 1999,
  "Category" : [
    "Thriller",
    "Fantasy"
  ],
  "Price" : 128,
  "Authors" : [
    "Stendhal"
  ],
  "Available_in" : [
    "UK",
    "UK",
    "Germany"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d3"),
  "Name" : "Seven dwarfs",
  "Series" : "Yes",
  "Year" : 1999,
```

```
"Category" : [
"Comedy"
],
"Price" : 128,
"Authors" : [
"John",
"Paul"
],
"Available_in" : [
"US",
"UK",
"Russia"
]
}
{
"_id" : ObjectId("60eaa4149b4d4a15342a29d4"),
"Name" : "Alice in wonderland",
"Series" : "Yes",
"Year" : 2001,
"Category" : [
"Fantasy"
],
"Price" : 99,
"Authors" : [
"Lewis",
"Carrol"
],
"Available_in" : [
"US",
"UK",
"INDIA"
]
}
{
"_id" : ObjectId("60eaa4149b4d4a15342a29d5"),
"Name" : "Time Machine",
"Series" : "Yes",
"Year" : 2003,
"Category" : [
"Thriller"
],
"Price" : 99,
"Authors" : [
"H.G.Wells"
],
"Available_in" : [
"INDIA"
]
}
{
"_id" : ObjectId("60eaa4149b4d4a15342a29d6"),
```

```

"Name" : "SherlockHomles",
"Series" : "Yes",
"Year" : 2005,
"Category" : [
  "Thriller"
],
"Price" : 150,
"Authors" : [
  "Arthur Conan Doyle"
],
"Available_in" : [
  "INDIA",
  "UK"
]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d7"),
  "Name" : "Lolita",
  "Series" : "No",
  "Year" : 1993,
  "Category" : [
    "Journal"
  ],
  "Price" : 70,
  "Authors" : [
    "Stevenson",
    "paul"
  ],
  "Available_in" : [
    "INDIA",
    "Sweden"
  ]
}

```

2. Find out all the records which are published between the year 1990 – 2000

```
> db.Books.find({ $and: [{Year:{$gt:1990}}, {Year:{$lt:2000}}]}).pretty();
```

```

{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d1"),
  "Name" : "War and Peace",
  "Series" : "Yes",
  "Year" : 1993,
  "Category" : [
    "Thriller"
  ],
  "Price" : 90,
  "Authors" : [
    "Tolstoy"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d2"),

```

```
"Name" : "Red and Black",
"Series" : "Yes",
"Year" : 1999,
"Category" : [
  "Thriller",
  "Fantasy"
],
"Price" : 128,
"Authors" : [
  "Stendhal"
],
"Available_in" : [
  "UK",
  "UK",
  "Germany"
]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d3"),
  "Name" : "Seven dwarfs",
  "Series" : "Yes",
  "Year" : 1999,
  "Category" : [
    "Comedy"
  ],
  "Price" : 128,
  "Authors" : [
    "John",
    "Paul"
  ],
  "Available_in" : [
    "US",
    "UK",
    "Russia"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d7"),
  "Name" : "Lolita",
  "Series" : "No",
  "Year" : 1993,
  "Category" : [
    "Journal"
  ],
  "Price" : 70,
  "Authors" : [
    "Stevenson",
    "paul"
  ],
  "Available_in" : [
    "INDIA",
```

```
"Sweden"  
]  
}
```

3. Find out all the books which can be sold in “India”

```
> db.Books.find({Available_in:"INDIA"}).pretty();  
{  
  "_id" : ObjectId("60eaa4149b4d4a15342a29ce"),  
  "Name" : "Tom Jones",  
  "Series" : "yes",  
  "Year" : 2000,  
  "Category" : [  
    "Mystery",  
    "Comedy"  
  ],  
  "Price" : 230,  
  "Authors" : [  
    "Henry",  
    "Fielding"  
  ],  
  "Available_in" : [  
    "USA",  
    "UK",  
    "INDIA"  
  ]  
}  
{  
  "_id" : ObjectId("60eaa4149b4d4a15342a29d0"),  
  "Name" : "Pride and Prejudice",  
  "Series" : "Yes",  
  "Year" : 2001,  
  "Category" : [  
    "Thriller",  
    "Comedy"  
  ],  
  "Price" : 140,  
  "Authors" : [  
    "Jane",  
    "Austin"  
  ],  
  "Available_in" : [  
    "UK",  
    "INDIA"  
  ]  
}  
{  
  "_id" : ObjectId("60eaa4149b4d4a15342a29d4"),  
  "Name" : "Alice in wonderland",  
  "Series" : "Yes",  
  "Year" : 2001,  
  "Category" : [  
    "Mystery",  
    "Comedy"  
  ],  
  "Price" : 140,  
  "Authors" : [  
    "Lewis Carroll"  
  ],  
  "Available_in" : [  
    "USA",  
    "UK",  
    "INDIA"  
  ]  
}
```

```
"Fantasy"
],
"Price" : 99,
"Authors" : [
  "Lewis",
  "Carrol"
],
"Available_in" : [
  "US",
  "UK",
  "INDIA"
]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d5"),
  "Name" : "Time Machine",
  "Series" : "Yes",
  "Year" : 2003,
  "Category" : [
    "Thriller"
  ],
  "Price" : 99,
  "Authors" : [
    "H.G.Wells"
  ],
  "Available_in" : [
    "INDIA"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d6"),
  "Name" : "SherlockHomles",
  "Series" : "Yes",
  "Year" : 2005,
  "Category" : [
    "Thriller"
  ],
  "Price" : 150,
  "Authors" : [
    "Arthur Conan Doyle"
  ],
  "Available_in" : [
    "INDIA",
    "UK"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d7"),
  "Name" : "Lolita",
  "Series" : "No",
  "Year" : 1993,
```



```

"Category" : [
"Journal"
],
"Price" : 70,
"Authors" : [
"Stevenson",
"paul"
],
"Available_in" : [
"INDIA",
"Sweden"
]
}

```

4. Find out all the books which are series, provide the count

```

> db.Books.find({Series:"Yes"}).count();
7

```

5. Find out all the documents which are series and belong to the “thriller” category

```

> db.Books.find({$and:[{Series:"Yes"},{Category:"Thriller"}]}).pretty();
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d0"),
  "Name" : "Pride and Prejudice",
  "Series" : "Yes",
  "Year" : 2001,
  "Category" : [
    "Thriller",
    "Comedy"
  ],
  "Price" : 140,
  "Authors" : [
    "Jane",
    "Austin"
  ],
  "Available_in" : [
    "UK",
    "INDIA"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d1"),
  "Name" : "War and Peace",
  "Series" : "Yes",
  "Year" : 1993,
  "Category" : [
    "Thriller"
  ],
  "Price" : 90,
  "Authors" : [
    "Tolstoy"
  ]
}

```

```
]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d2"),
  "Name" : "Red and Black",
  "Series" : "Yes",
  "Year" : 1999,
  "Category" : [
    "Thriller",
    "Fantasy"
  ],
  "Price" : 128,
  "Authors" : [
    "Stendhal"
  ],
  "Available_in" : [
    "UK",
    "UK",
    "Germany"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d5"),
  "Name" : "Time Machine",
  "Series" : "Yes",
  "Year" : 2003,
  "Category" : [
    "Thriller"
  ],
  "Price" : 99,
  "Authors" : [
    "H.G.Wells"
  ],
  "Available_in" : [
    "INDIA"
  ]
}
{
  "_id" : ObjectId("60eaa4149b4d4a15342a29d6"),
  "Name" : "SherlockHomles",
  "Series" : "Yes",
  "Year" : 2005,
  "Category" : [
    "Thriller"
  ],
  "Price" : 150,
  "Authors" : [
    "Arthur Conan Doyle"
  ],
  "Available_in" : [
    "INDIA",
```

```
"UK"  
]  
}
```

6. Find out all the records which is both thriller and having the price <100

```
> db.Books.find({$and:[{Category:"Thriller"},{Price:{$lt:100}}]}).pretty();  
{  
  "_id" : ObjectId("60eaa4149b4d4a15342a29d1"),  
  "Name" : "War and Peace",  
  "Series" : "Yes",  
  "Year" : 1993,  
  "Category" : [  
    "Thriller"  
  ],  
  "Price" : 90,  
  "Authors" : [  
    "Tolstoy"  
  ]  
}  
{  
  "_id" : ObjectId("60eaa4149b4d4a15342a29d5"),  
  "Name" : "Time Machine",  
  "Series" : "Yes",  
  "Year" : 2003,  
  "Category" : [  
    "Thriller"  
  ],  
  "Price" : 99,  
  "Authors" : [  
    "H.G.Wells"  
  ],  
  "Available_in" : [  
    "INDIA"  
  ]  
}  
>
```