# **April 7, 2021 LAB\_3:**

1. Create a collection “Books” under the database “BookDB” and insert 10 records having the following fields

> use BookDB

switched to db BookDB

> db.createCollection("Books")

{ "ok" : 1 }

> db.Books.insertMany([

... {

... Name: "abc",

... Series: "Yes",

... Published\_year: 2020,

... Category: ["romance", "action"],

... Price: 500,

... Authors: ["ab", "ac"],

... Available\_in: ["india", "aus", "usa"]

... },

...

... {

... Name: "def",

... Series: "Yes",

... Published\_year: 2004,

... Category: ["thriller"],

... Price: 70,

... Authors: ["ac"],

... Available\_in: ["india", "uk", "ger"]

... },

...

... {

... Name: "ghi",

... Series: "Yes",

... Published\_year: 1995,

... Category: ["thriller", "action"],

... Price: 95,

... Authors: ["bd", "ef"],

... Available\_in: ["aus", "fra"]

... },

...

... {

... Name: "jkl",

... Series: "Yes",

... Published\_year: 1999,

... Category: ["romance", "comedy"],

... Price: 158,

... Authors: ["hf"],

... Available\_in: ["india", "fra", "ita"]

... },

...

... {

... Name: "mno",

... Series: "No",

... Published\_year: 1993,

... Category: ["thriller"],

... Price: 185,

... Authors: ["ml", "cd"],

... Available\_in: ["usa", "can", "uk"]

... },

...

... {

... Name: "pqr",

... Series: "Yes",

... Published\_year: 2006,

... Category: ["thriller", "romance"],

... Price: 115,

... Authors: ["re"],

... Available\_in: ["uk", "pol", "ger"]

... },

...

... {

... Name: "stu",

... Series: "No",

... Published\_year: 2014,

... Category: ["romance"],

... Price: 350,

... Authors: ["ba", "nt"],

... Available\_in: ["india", "usa", "ita"]

... },

...

... {

... Name: "vwx",

... Series: "No",

... Published\_year: 2009,

... Category: ["comedy"],

... Price: 359,

... Authors: ["ad", "jk"],

... Available\_in: ["ita", "fra", "rus"]

... },

...

... {

... Name: "yza",

... Series: "Yes",

... Published\_year: 2001,

... Category: ["mystery", "suspense"],

... Price: 85,

... Authors: ["ab"],

... Available\_in: ["india", "uk", "pol"]

... },

...

... {

... Name: "bcd",

... Series: "No",

... Published\_year: 2007,

... Category: ["thriller", "mystery"],

... Price: 75,

... Authors: ["gk"],

... Available\_in: ["rus", "usa"]

... },

...

...

... ])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("606d83e8bc98a6f848edf5dc"),

ObjectId("606d83e8bc98a6f848edf5dd"),

ObjectId("606d83e8bc98a6f848edf5de"),

ObjectId("606d83e8bc98a6f848edf5df"),

ObjectId("606d83e8bc98a6f848edf5e0"),

ObjectId("606d83e8bc98a6f848edf5e1"),

ObjectId("606d83e8bc98a6f848edf5e2"),

ObjectId("606d83e8bc98a6f848edf5e3"),

ObjectId("606d83e8bc98a6f848edf5e4"),

ObjectId("606d83e8bc98a6f848edf5e5")

]

}

2.Queries

1. > db.Books.find({Price: {$lt: 200}}).count();

7

B. > db.Books.find({ $and: [ {Published\_year: {$gt: 1990}}, {Published\_year: {$lt: 2000}} ] }).pretty()

{

"\_id" : ObjectId("606d873036f1672f6d6b982e"),

"Name" : "ghi",

"Series" : "Yes",

"Published\_year" : 1995,

"Category" : [

"thriller",

"action"

],

"Price" : 95,

"Authors" : [

"bd",

"ef"

],

"Available\_in" : [

"aus",

"fra"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b982f"),

"Name" : "jkl",

"Series" : "Yes",

"Published\_year" : 1999,

"Category" : [

"romance",

"comedy"

],

"Price" : 158,

"Authors" : [

"hf"

],

"Available\_in" : [

"india",

"fra",

"ita"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b9830"),

"Name" : "mno",

"Series" : "No",

"Published\_year" : 1993,

"Category" : [

"thriller"

],

"Price" : 185,

"Authors" : [

"ml",

"cd"

],

"Available\_in" : [

"usa",

"can",

"uk"

]

}

C. > db.Books.find({Available\_in: {$in: ["india"]}}).pretty();

{

"\_id" : ObjectId("606d873036f1672f6d6b982c"),

"Name" : "abc",

"Series" : "Yes",

"Published\_year" : 2020,

"Category" : [

"romance",

"action"

],

"Price" : 500,

"Authors" : [

"ab",

"ac"

],

"Available\_in" : [

"india",

"aus",

"usa"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b982d"),

"Name" : "def",

"Series" : "Yes",

"Published\_year" : 2004,

"Category" : [

"thriller"

],

"Price" : 70,

"Authors" : [

"ac"

],

"Available\_in" : [

"india",

"uk",

"ger"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b982f"),

"Name" : "jkl",

"Series" : "Yes",

"Published\_year" : 1999,

"Category" : [

"romance",

"comedy"

],

"Price" : 158,

"Authors" : [

"hf"

],

"Available\_in" : [

"india",

"fra",

"ita"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b9832"),

"Name" : "stu",

"Series" : "No",

"Published\_year" : 2014,

"Category" : [

"romance"

],

"Price" : 350,

"Authors" : [

"ba",

"nt"

],

"Available\_in" : [

"india",

"usa",

"ita"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b9834"),

"Name" : "yza",

"Series" : "Yes",

"Published\_year" : 2001,

"Category" : [

"mystery",

"suspense"

],

"Price" : 85,

"Authors" : [

"ab"

],

"Available\_in" : [

"india",

"uk",

"pol"

]

}

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

6

E. > db.Books.find( {$and: [{Series: "Yes"}, {Category: {$in: ["thriller"]}}] }).pretty()

{

"\_id" : ObjectId("606d873036f1672f6d6b982d"),

"Name" : "def",

"Series" : "Yes",

"Published\_year" : 2004,

"Category" : [

"thriller"

],

"Price" : 70,

"Authors" : [

"ac"

],

"Available\_in" : [

"india",

"uk",

"ger"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b982e"),

"Name" : "ghi",

"Series" : "Yes",

"Published\_year" : 1995,

"Category" : [

"thriller",

"action"

],

"Price" : 95,

"Authors" : [

"bd",

"ef"

],

"Available\_in" : [

"aus",

"fra"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b9831"),

"Name" : "pqr",

"Series" : "Yes",

"Published\_year" : 2006,

"Category" : [

"thriller",

"romance"

],

"Price" : 115,

"Authors" : [

"re"

],

"Available\_in" : [

"uk",

"pol",

"ger"

]

}

F. > db.Books.find({ $and:[{Category: {$in: ["thriller"]}}, {Price: {$lt: 100}}] }).pretty()

{

"\_id" : ObjectId("606d873036f1672f6d6b982d"),

"Name" : "def",

"Series" : "Yes",

"Published\_year" : 2004,

"Category" : [

"thriller"

],

"Price" : 70,

"Authors" : [

"ac"

],

"Available\_in" : [

"india",

"uk",

"ger"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b982e"),

"Name" : "ghi",

"Series" : "Yes",

"Published\_year" : 1995,

"Category" : [

"thriller",

"action"

],

"Price" : 95,

"Authors" : [

"bd",

"ef"

],

"Available\_in" : [

"aus",

"fra"

]

}

{

"\_id" : ObjectId("606d873036f1672f6d6b9835"),

"Name" : "bcd",

"Series" : "No",

"Published\_year" : 2007,

"Category" : [

"thriller",

"mystery"

],

"Price" : 75,

"Authors" : [

"gk"

],

"Available\_in" : [

"rus",

"usa"

]

}

# 