**Session 3**

**07/04/2021**

use BookDB

db.createCollection("Books");

show collections

Books

db.collection.insert(

... {

... "Name": "Sagar",

... "Series": "Yes",

... "Published year": 2002,

... "Category": "Science fiction",

... "Price": 300,

... "Authors": "Mukund",

... "Available in": ["India", "Germany", "USA", "Croatia"]

... });

WriteResult({ "nInserted" : 1 })

After inserting 10 values into the collection Books

db.Books.insert(

... {

... "Name": "Two States",

... "Series": "Yes",

... "Published year": 2007,

... "Category": "Adult, Romance",

... "Price": 900,

... "Authors": "Chetan Bhagat",

... "Available in": ["India","UK", "Australia", "New Zealand", "USA", "Netherlands"]

... });

All values inserted

db.Books.find().pretty();

{

"\_id" : ObjectId("606d79f41fc3bf2cb0c8974f"),

"Name" : "Sagar",

"Series" : "Yes",

"Published year" : 2002,

"Category" : "Science fiction",

"Price" : 300,

"Authors" : "Mukund",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia"

]

}

{

"\_id" : ObjectId("606d7aa01fc3bf2cb0c89750"),

"Name" : "Immortals of Meluha",

"Series" : "Yes",

"Published year" : 2008,

"Category" : "Mythological fiction",

"Price" : 500,

"Authors" : "Amish",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

"Australia"

]

}

{

"\_id" : ObjectId("606d7b3f1fc3bf2cb0c89751"),

"Name" : "Harry Potter",

"Series" : "Yes",

"Published year" : 1998,

"Category" : "Mystery, Thriller",

"Price" : 800,

"Authors" : "JK Rowling",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7b7c1fc3bf2cb0c89752"),

"Name" : "Lord of the rings",

"Series" : "Yes",

"Published year" : 1985,

"Category" : "Thriller, fantasy",

"Price" : 700,

"Authors" : "CS Lewis",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7dc71fc3bf2cb0c89753"),

"Name" : "Artemis Fowl",

"Series" : "Yes",

"Published year" : 2015,

"Category" : "Spy, Thriller, fantasy",

"Price" : 900,

"Authors" : "Lord",

"Available in" : [

"Germany",

"USA",

"Croatia",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7e1f1fc3bf2cb0c89754"),

"Name" : "The faraway tree",

"Series" : "No",

"Published year" : 1970,

"Category" : "YA, Kids fiction",

"Price" : 1200,

"Authors" : "Enid Blyton",

"Available in" : [

"India",

"Germany",

"Brazil",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7e661fc3bf2cb0c89755"),

"Name" : "A Place Called Freedom",

"Series" : "No",

"Published year" : 1990,

"Category" : "Adult, Historical fiction",

"Price" : 1300,

"Authors" : "Ken Follet",

"Available in" : [

"India",

"Germany",

"Brazil",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7e991fc3bf2cb0c89756"),

"Name" : "The Da Vinci Code",

"Series" : "Yes",

"Published year" : 1985,

"Category" : "Adult, Historical fiction",

"Price" : 1500,

"Authors" : "Dan Brown",

"Available in" : [

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7ec11fc3bf2cb0c89757"),

"Name" : "Angels and Demons",

"Series" : "Yes",

"Published year" : 1995,

"Category" : "Adult, Historical fiction",

"Price" : 700,

"Authors" : "Dan Brown",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7eff1fc3bf2cb0c89758"),

"Name" : "Two States",

"Series" : "Yes",

"Published year" : 2007,

"Category" : "Adult, Romance",

"Price" : 900,

"Authors" : "Chetan Bhagat",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand",

"USA",

"Netherlands"

]

}

Q1 Query 1

.Books.find({"Price":{$lt: 200}} ).pretty();

{

"\_id" : ObjectId("606d804b1fc3bf2cb0c89759"),

"Name" : "Revolution 2020",

"Series" : "No",

"Published year" : 2012,

"Category" : "Adult, Romance",

"Price" : 100,

"Authors" : "Chetan Bhagat",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand",

"USA",

"Netherlands"

]

}

db.Books.find({“Price”: {$lt: 200}}).count().pretty();

Q2 Query 2

db.Books.find({"Published year": {$gte:(1990), $lt:(2000)}}).pretty();

{

"\_id" : ObjectId("606d7b3f1fc3bf2cb0c89751"),

"Name" : "Harry Potter",

"Series" : "Yes",

"Published year" : 1998,

"Category" : "Mystery, Thriller",

"Price" : 800,

"Authors" : "JK Rowling",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7e661fc3bf2cb0c89755"),

"Name" : "A Place Called Freedom",

"Series" : "No",

"Published year" : 1990,

"Category" : "Adult, Historical fiction",

"Price" : 1300,

"Authors" : "Ken Follet",

"Available in" : [

"India",

"Germany",

"Brazil",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7ec11fc3bf2cb0c89757"),

"Name" : "Angels and Demons",

"Series" : "Yes",

"Published year" : 1995,

"Category" : "Adult, Historical fiction",

"Price" : 700,

"Authors" : "Dan Brown",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand"

]

}

Q3 Query 3

db.Books.find({"Available in":"India"}).pretty();

{

"\_id" : ObjectId("606d79f41fc3bf2cb0c8974f"),

"Name" : "Sagar",

"Series" : "Yes",

"Published year" : 2002,

"Category" : "Science fiction",

"Price" : 300,

"Authors" : "Mukund",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia"

]

}

{

"\_id" : ObjectId("606d7aa01fc3bf2cb0c89750"),

"Name" : "Immortals of Meluha",

"Series" : "Yes",

"Published year" : 2008,

"Category" : "Mythological fiction",

"Price" : 500,

"Authors" : "Amish",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

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]

}

{

"\_id" : ObjectId("606d7b3f1fc3bf2cb0c89751"),

"Name" : "Harry Potter",

"Series" : "Yes",

"Published year" : 1998,

"Category" : "Mystery, Thriller",

"Price" : 800,

"Authors" : "JK Rowling",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7b7c1fc3bf2cb0c89752"),

"Name" : "Lord of the rings",

"Series" : "Yes",

"Published year" : 1985,

"Category" : "Thriller, fantasy",

"Price" : 700,

"Authors" : "CS Lewis",

"Available in" : [

"India",

"Germany",

"USA",

"Croatia",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7e1f1fc3bf2cb0c89754"),

"Name" : "The faraway tree",

"Series" : "No",

"Published year" : 1970,

"Category" : "YA, Kids fiction",

"Price" : 1200,

"Authors" : "Enid Blyton",

"Available in" : [

"India",

"Germany",

"Brazil",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7e661fc3bf2cb0c89755"),

"Name" : "A Place Called Freedom",

"Series" : "No",

"Published year" : 1990,

"Category" : "Adult, Historical fiction",

"Price" : 1300,

"Authors" : "Ken Follet",

"Available in" : [

"India",

"Germany",

"Brazil",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7ec11fc3bf2cb0c89757"),

"Name" : "Angels and Demons",

"Series" : "Yes",

"Published year" : 1995,

"Category" : "Adult, Historical fiction",

"Price" : 700,

"Authors" : "Dan Brown",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand"

]

}

{

"\_id" : ObjectId("606d7eff1fc3bf2cb0c89758"),

"Name" : "Two States",

"Series" : "Yes",

"Published year" : 2007,

"Category" : "Adult, Romance",

"Price" : 900,

"Authors" : "Chetan Bhagat",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand",

"USA",

"Netherlands"

]

}

{

"\_id" : ObjectId("606d804b1fc3bf2cb0c89759"),

"Name" : "Revolution 2020",

"Series" : "No",

"Published year" : 2012,

"Category" : "Adult, Romance",

"Price" : 100,

"Authors" : "Chetan Bhagat",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand",

"USA",

"Netherlands"

]

}

Q4 Query 4

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

8

Q5 Query 5

db.Books.updateOne({"Name":"The Black Snake"}, {$set: {"Series": "Yes"}});

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

db.Books.find({$and: [{"Category": "Thriller"}, {"Series": "Yes"}]} ).pretty();

{

"\_id" : ObjectId("606d85e6cc65b1a90dd28df6"),

"Name" : "The Black Snake",

"Series" : "Yes",

"Published year" : 2004,

"Category" : "Thriller",

"Price" : 100,

"Authors" : "John Grisham",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand",

"USA",

"Netherlands"

]

}

Q6 Query 6

db.Books.find({ $and: [{"Category": "Thriller"}, {"Price": {$lt: 200}}]}).pretty();

{

"\_id" : ObjectId("606d85e6cc65b1a90dd28df6"),

"Name" : "The Black Snake",

"Series" : "Yes",

"Published year" : 2004,

"Category" : "Thriller",

"Price" : 100,

"Authors" : "John Grisham",

"Available in" : [

"India",

"UK",

"Australia",

"New Zealand",

"USA",

"Netherlands"

]}