**MONGO BOOK ASSIGNMENT  
PRATIKSHA TAMBE(243072)**

Note : use C:\mydata\mongodb\Json Files book.json file for importing data

Every document has following structure.

{

"\_id" : 4,

"title" : "Flex 3 in Action",

"isbn" : "1933988746",

"pageCount" : 576,

"publishedDate" : ISODate("2009-02-02T08:00:00Z"),

"thumbnailUrl" : "https://s3.amazonaws.com/AKIAJC5RLADLUMVRPFDQ.book-

thumb-images/ahmed.jpg",

"longDescription" : "New web applications require engaging user-friendly interfaces

and the cooler, the better. With Flex 3, web developers at any skill level can create high-

quality, effective, and interactive Rich Internet Applications (RIAs) quickly and easily. Flex

removes the complexity barrier from RIA development by offering sophisticated tools and a

straightforward programming language so you can focus on what you want to do instead of

how to do it. And now that the major components of Flex are free and open-source, the cost

barrier is gone, as well! Flex 3 in Action is an easy-to-follow, hands-on Flex tutorial.

Chock-full of examples, this book goes beyond feature coverage and helps you put Flex to

work in real day-to-day tasks. You'll quickly master the Flex API and learn to apply the

techniques that make your Flex applications stand out from the crowd. Interesting themes,

styles, and skins It's in there. Working with databases You got it. Interactive forms and

validation You bet. Charting techniques to help you visualize data Bam! The expert

authors of Flex 3 in Action have one goal to help you get down to business with Flex 3.

Fast. Many Flex books are overwhelming to new users focusing on the complexities of the

language and the super-specialized subjects in the Flex eco-system; Flex 3 in Action filters

out the noise and dives into the core topics you need every day. Using numerous easy-to-

understand examples, Flex 3 in Action gives you a strong foundation that you can build on as

the complexity of your projects increases.",

"status" : "PUBLISH",

"authors" : [

"Tariq Ahmed with Jon Hirschi",

"Faisal Abid"

],

"categories" : [

"Internet"

]

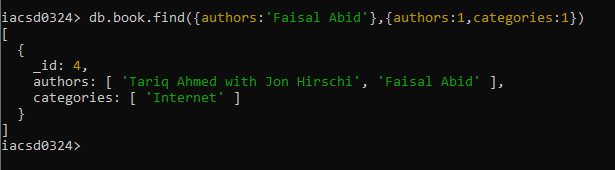
}

**—-------------------------------------------------------------------**

**—-------------------------------------------------------------------**

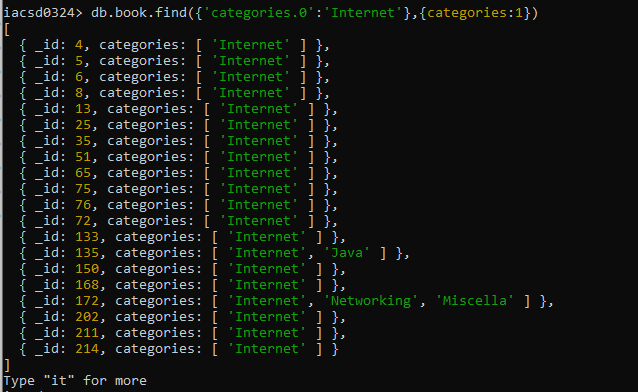
1. Find all books whose author is Faisal Abid and display name of book authors and categories

**db.book.find({authors:'Faisal Abid'},{authors:1,categories:1})**

****

2. List all the books with category ‘Internet’ at first position in category array

**db.book.find({'categories.0':'Internet'},{categories:1})**



3. Change the status of books “undergoing change” for books having more than 500 pages and published in 2009

**db.book.updateMany({pageCount:{$gt:500},$expr:{$eq:[{$year:'$publishedDate'},2009]}},{$set:{status:'PUBLISH'}},{longDescription:0})**



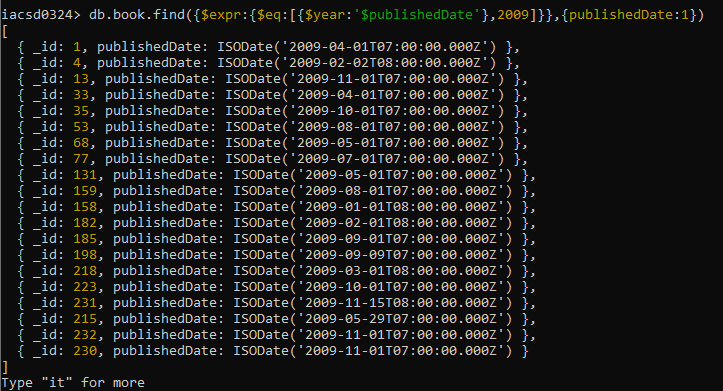
4. Find all the books containing word ‘highlighting’ and ‘depth’ in long description of the book

**db.book.createIndex({longDescription:"text"})**

**db.book.find({$text:{$search:"highlighting")**

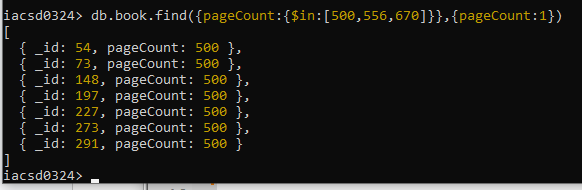
5. Display all books published in 2009

**db.book.find({$expr:{$eq:[{$year:'$publishedDate'},2009]}},{publishedDate:1})**

****

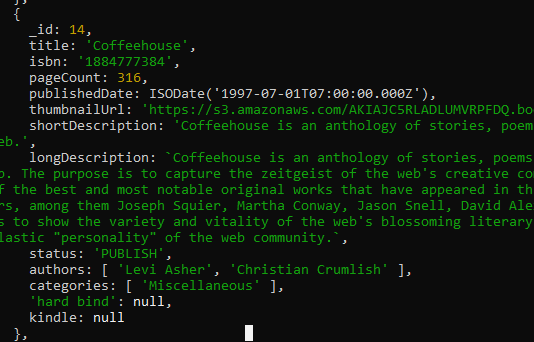
6. Find all books with pageCount is either 500 or 556 or 670

**db.book.find({pageCount:{$in:[500,556,670]}},{pageCount:1})**



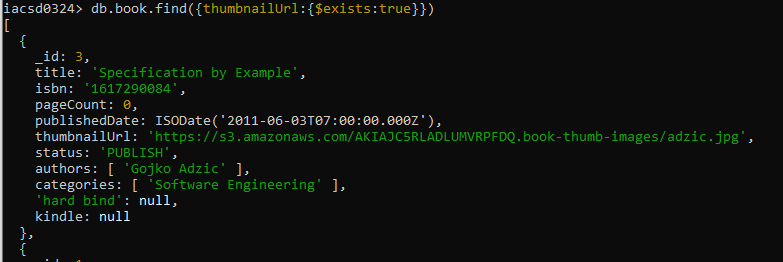
7. Add 2 categories “kindle” and “hard bind” in all the books if its pageCount >200 and < 500 or number of pages >500

**db.book.updateMany({pageCount:{$gt:200},pageCount:{$lt:500}},{$set:{"kindle":null, "hard bind":null}})**



8. List all the books which has thumbnailUrl key

**db.book.find({thumbnailUrl:{$exists:true}})**



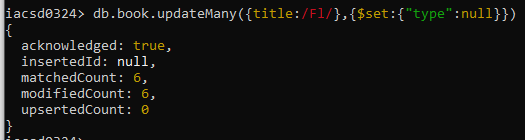
9. Add key type with values [“fiction”,”moral stories”,”adventurous”] in all books whose title starts with Fl and contains ‘a’ somewhere in the name

**db.book.updateMany({title:/Fl/},{$set:{"type":null}})**

**$and:[{title:/Fl/},{title:/a/},{}]**

**$set:{"type":["fiction","moral stories","adventurous"]}**

**db.book.updateMany()**



10. Add a key comments :[{comment:” like the book” ,date:ISODate(“2019-09-01”)},

11. Add new author “myauthor” at position 2 for all books whose title starts with ‘h’ or ‘m’ and contains s at 2nd last position

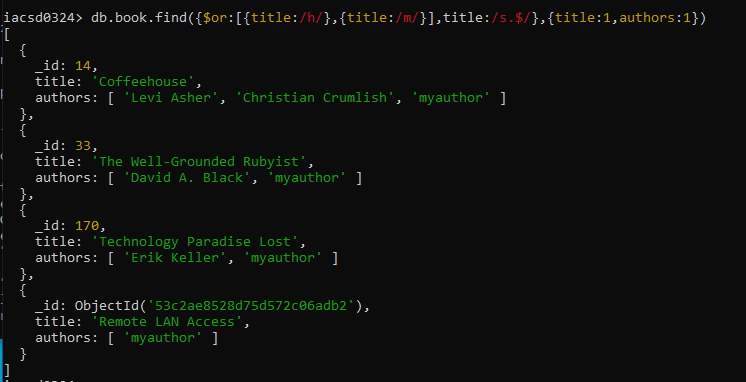
ARRAY INDEX COUNT IS :0,1,2…………

—-------------->**Query to update values in authors key**

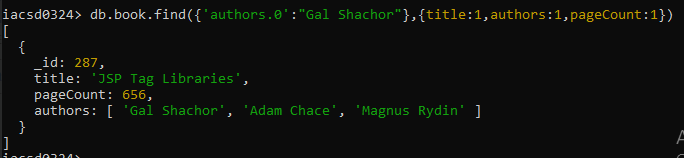
**db.book.updateMany({$or:[{title:/h/},{title:/m/}],title:/s.$/},{$push:{authors:{$each:['myauthor'],$position:1}}})**

—-------------->**Query to see the authors va;ues has changed or not**

**db.book.find({$or:[{title:/h/},{title:/m/}],title:/s.$/},{title:1,authors:1})**



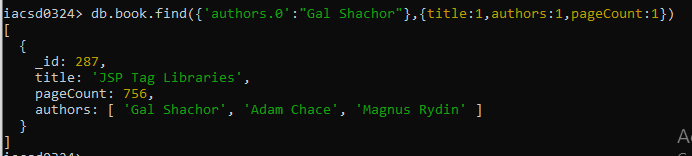
12. Increase pageCount by 100 for all books whose author at 1 st position is “Gal Shachor”

**BEFORE  
**

**QUERY**

**db.book.updateMany({'authors.0':"Gal Shachor"},{$inc:{pageCount:100}})**

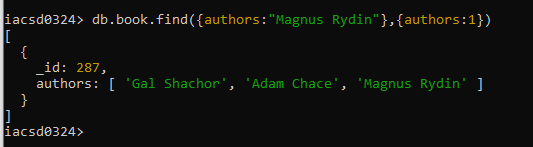
**AFTER**

****

13. Overwrite “Magnus Rydin" with name “Fr”

**BEFORE**

**db.book.find({authors:"Magnus Rydin"},{authors:1})**



**QUERY**

**db.book.updateMany({authors:"Magnus Rydin"},{$set:{"authors.$":"Fr"}})**

**AFTER**

**db.book.find({authors:"Fr"},{authors:1})**

****

14. List all books title, status, pageCount for all books with pages > 300 or < 500 or title starts with a or isbn starts with 193

**db.book.find({$or:[{pageCount:{$gt:300}},{pageCount:{$lt:500}},{title:/^a/i},{isbn:/^193/}]},{title:1, status:1, pageCount:1, isbn:1})**

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