Assignment

1. Making a booksdb and collection named books.

```
test) use booksdb;
switched to db booksdb;
switched to
```

```
sdb> db.books.updateOne({"_id":21},{$set:{"pageCount":544}})
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
booksdb> db.books({"_id":21})
ypeError: db.books is not a function
booksdb> db.books.find({"_id":21})
   id: 21,
   title: 'MongoDB: The Definitive Guide',
   isbn: '9781491954461',
   publishedDate: ISODate("2009-12-01T07:00:00.000Z"),
   authors: [ 'Kristina Chodorow' ],
   categories: [ 'Next Generation Databases' ],
   publisher: "O'Reilly Media, Inc.",
   pageCount: 544
```

```
booksdb> db.books.updateOne( {"_id": 21 }, { $push: { "authors": "Michael Dirolf" } });
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
booksdb> db.books.find({"_id":21})
[
   {
    _id: 21,
     title: 'MongoDB: The Definitive Guide',
     isbn: '9781491954461',
   publishedDate: ISODate("2009-12-01T07:00:00.000Z"),
   authors: [ 'Kristina Chodorow', 'Michael Dirolf' ],
   categories: [ 'Next Generation Databases' ],
   publisher: "O'Reilly Media, Inc.",
   pageCount: 544
}
]
```

```
booksdb> db.books.updateOne( {"_id": 21 }, { $push: { "categories": {$each:["mongodb", "advan ced databases"]} } });
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
booksdb> db.books.find({"_id":21})
[
    {
        id: 21,
        title: 'MongoDB: The Definitive Guide Third edition.',
        isbn: '9781491954461',
        publishedDate: ISODate("2009-12-01T07:00:00.000Z"),
        authors: [ 'Kristina Chodorow', 'Michael Dirolf' ],
        categories: [
        'Next Generation Databases',
        'mongodb',
        'advanced databases'
        ',
        'advanced databases'
        ',
        publisher: "O'Reilly Media, Inc.",
        pageCount: 500
}
booksdb> __
```

```
booksdb> db.books.updateOne( {"_id": 21 }, { $pull: { "categories": "advanced databases" }})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
booksdb> db.books.find({"_id":21})
[
    {
        _id: 21,
        title: 'MongoDB: The Definitive Guide Third edition.',
        isbn: '9781491954461',
        publishedDate: ISODate("2009-12-01T07:00:00.000Z"),
        authors: [ 'Kristina Chodorow', 'Michael Dirolf' ],
        categories: [ 'NoSQL databases', 'mongodb' ],
        publisher: "O'Reilly Media, Inc.",
        pageCount: 500
}
}
booksdb>
```

```
booksdb> db.books.updateMany( {}, [{ $set:{"pubyear":{$year:"$publishedDate"}} }])
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 19,
   modifiedCount: 18,
   upsertedCount: 0
```

```
booksdb> db.books.updateMany(
... {},
... { $unset: {'longDescription':1}},
... false, true
...)
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 19,
   modifiedCount: 17,
   upsertedCount: 0
}
```

Part 2

```
booksdb> db.books.find().forEach( function(d){count++; });
booksdb> count
19
booksdb> _
```

16

```
booksdb> db.books.find({"pubyear":2019})
booksdb> _
```

```
booksdb> db.books.find({"publishedDate":{$gt:ISODate("2019-01-01")}})
booksdb>
```

```
booksdb> count=0
0
booksdb> db.books.find({"authors":{$size:3}}).forEach( function(d){count++; });
booksdb> count
2
booksdb> _
```

```
booksdb> db.books.find({"shortDescription":{$exists:false}});
[
{
    _id: 3,
    title: 'Specification by Example',
    isbn: '1617290084',
    pageCount: 0,
    publishedDate: ISODate("2011-06-03T07:00:00.000Z"),
    thumbnailVrl: 'https://s3.amazonaws.com/AKIAJCSRLADLUMVRPFDQ.book-thumb-images/adzic.jpg',
    status: 'PUBLISH',
    authors: [ 'Gojko Adzic' ],
    categories: [ 'Software Engineering' ],
    pubyear: 2011
},
{
    _id: 4,
    title: 'Flex 3 in Action',
    isbn: '1933988746',
    pageCount: 576,
    publishedDate: ISODate("2009-02-02T08:00:00.000Z"),
    thumbnailVrl: 'https://s3.amazonaws.com/AKIAJCSRLADLUMVRPFDQ.book-thumb-images/ahmed.jpg',
    status: 'PUBLISH',
    authors: [ 'Tariq Ahmed with Jon Hirschi', 'Faisal Abid' ],
    categories: [ 'Internet' ],
```

21

```
booksdb> db.books.find({"comments.rating":{$lte:3}})
booksdb> _
```

```
booksdb> db.books.find({"comments.Name":"David","comments.rating":{$eq:3}})
booksdb> _
```