

Full Stack Assignment

Name: Suhas Khandappagoudar

USN: 01fe20mca029

MONGO DB:

Collection Name : BOOKS

INSERTING DATA INTO COLLECTION : BOOKS

Query1:

```
db.Books.insertOne({"Book_Title":"Java","Author":"Horstmann","Publisher":"prentice","edition":11,"Year_of_pub":2011,"ISBN":0-345-24223-8});
```

Query2:

```
2.db.Books.insertOne({"Book_Title":"Line of Fire","Author":"Brian Paddick","Publisher":"Simon ","edition":3,"Year_of_pub":2008,"ISBN":979-82-7213-496-0});
```

Query3:

```
db.Books.insertOne({"Book_Title":"Line of Fire","Author":"Brian Paddick","Publisher":"Simon ","edition":3,"Year_of_pub":2008,"ISBN":978-82-7213-496-0});Document4:
```

Query4:

```
db.Books.insertOne({"Book_Title":"AGameofThrones","Author":"Martin","Publisher":"Banta mSpectra","edition":9,"Year_of_pub":2016,"ISBN":968-82-7223-496-0});
```

Query5:

```
db.Books.insertOne({"Book_Title":"The girl in room 105","Author":"chetan Bhagat","Publisher":"Westland","edition":3,"Year_of_pub":2018,"ISBN":978-82-7223-497-0});
```

Query6:

```
db.Books.insertOne({"Book_Title":"python","Author":"matthes","Publisher":"john","edition":3,"Year_of_pub":2019,"ISBN":978-82-7223-498-0});
```

Query7:

```
db.Books.insertOne({"Book_Title":"Alchemist","Author":"panlo coelno","Publisher":"harper","edition":3,"Year_of_pub":2018,"ISBN":978-81-7223-498-0});
```

Query8 :db.Books.insertOne({"Book_Title":"python","Author":"john Zelle","Publisher":"Rossum","edition":3,"Year_of_pub":2012,"ISBN":0-332-24223-9});

Query9:

db.Books.insertOne({"Book_Title":"C++","Author":"stanley","Publisher":"jossee","edition":5,"Year_of_pub":2016,"ISBN":0-342-24223-9});

Query10:

db.Books.insertOne({"Book_Title":"Java","Author":"scott","Publisher":"shroff","edition":4,"Year_of_pub":2012,"ISBN":0-343-24223-9});

Query11:

db.Books.insertOne({"Book_Title":"Java","Author":"herbert","Publisher":"McGraw","edition":8,"Year_of_pub":2014,"ISBN":0-344-24223-9});

Query12:

db.Books.insertOne({"Book_Title":"Java","Author":"joshua","Publisher":"wesley","edition":4,"Year_of_pub":2016,"ISBN":0-345-24223-9});

Query13:

db.Books.insertOne({"Book_Title":"Java","Author":"Horstmann","Publisher":"prentice","edition":11,"Year_of_pub":2011,"ISBN":0-345-24223-8});

Display the documents of collection BOOKS :

Db.BOOKS.find()

To Update :

```
db.Books.updateOne({"Book_Title":"python"},{$set:{edition :4}});
```

```
> _MONGOSH
> db.Books.updateOne({"Book_Title":"python"},{$set:{edition :4}});
< { acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 0,
    upsertedCount: 0 }
> db.Books.find({"Book_Title":"python"});
< { _id: ObjectId("61d71c9d1134c343b8fc05fa"),
    Book_Title: 'python',
    Author: 'john Zelle',
    Publisher: 'Rossum',
    edition: 4,
    Year_of_pub: 2012,
    ISBN: -24564 }
```

Delete Operation :

```
db.Books.deleteOne({"Author":"Horstmann"});
```

```
> db.Books.deleteOne({"Author":"Horstmann"});
< { acknowledged: true, deletedCount: 1 }
college >
```

Queries

1. Retrieve the books which contains the title as java(case in-sensitive)

```
db.Books.find({"Book_Title" : { '$regex':/^Java$/i}});
```

```
>_MONGOSH
< 'switched to db college'
> db.Books.find({"Book_Title" : { '$regex':/^Java$/i}});
< { _id: ObjectId("61d71b451134c343b8fc05f6"),
  Book_Title: 'Java',
  Author: 'joshua',
  Publisher: 'wesley',
  edition: 4,
  Year_of_pub: 2016,
  ISBN: -24577 }
{ _id: ObjectId("61d71b821134c343b8fc05f7"),
  Book_Title: 'Java',
  Author: 'herbert',
  Publisher: 'McGraw',
  edition: 8,
  Year_of_pub: 2014,
  ISBN: -24576 }
{ _id: ObjectId("61d71ba61134c343b8fc05f8"),
  Book_Title: 'Java',
  Author: 'scott',
  Publisher: 'shroff',
  edition: 4,
  Year_of_pub: 2012,
  ISBN: -24575 }
{ _id: ObjectId("61d7c5ed2214e9f67e97827e"),
  Book_Title: 'Java',
  Author: 'scott',
  Publisher: 'shroff',
  edition: 4,
```

2. Retrieve the books which contains the title as java and year of publication is greater than 2015

```
db.Books.find({Book_Title:"Java",Year_of_pub:{$gt:2015}});
```

```
> db.Books.find({Book_Title:"Java",Year_of_pub:{$gt:2015}});  
< { _id: ObjectId("61d71b451134c343b8fc05f6"),  
  Book_Title: 'Java',  
  Author: 'joshua',  
  Publisher: 'wesley',  
  edition: 4,  
  Year_of_pub: 2016,  
  ISBN: -24577 }  
{ _id: ObjectId("61d7c7dd2214e9f67e978280"),  
  Book_Title: 'Java',  
  Author: 'joshua',  
  Publisher: 'wesley',  
  edition: 4,  
  Year_of_pub: 2016,  
  ISBN: -24577 }  
college> |
```

3. Retrieve the books whose edition is between 3rd and 4th

```
db.Books.find({edition:{$gte:3,$lte:4}});
```

```
> _MONGOSH
> db.Books.find({edition:{$gte:3,$lte:4}});
< { _id: ObjectId("61d71b451134c343b8fc05f6"),
  Book_Title: 'Java',
  Author: 'joshua',
  Publisher: 'wesley',
  edition: 4,
  Year_of_pub: 2016,
  ISBN: -24577 }
{ _id: ObjectId("61d71ba61134c343b8fc05f8"),
  Book_Title: 'Java',
  Author: 'scott',
  Publisher: 'shroff',
  edition: 4,
  Year_of_pub: 2012,
  ISBN: -24575 }
{ _id: ObjectId("61d71c9d1134c343b8fc05fa"),
  Book_Title: 'python',
  Author: 'john Zelle',
  Publisher: 'Rossum',
  edition: 4,
  Year_of_pub: 2012,
  ISBN: -24564 }
{ _id: ObjectId("61d71d1d1134c343b8fc05fb"),
  Book_Title: 'Alchemist',
  Author: 'panlo coelno',
  Publisher: 'harper',
```

4. Retrieve the name of the author who has published more than two books.

```
db.book.find({"Author":{$gt:2}}).count();
```