```
Name: SHYAM.R
Usn:1NT20IS413
Subject:BIGDATA LAB
db.shyam20is413.insert({"Name":"Lord of the
rings", "Book id": "B01", "Book Author": "JRR", "Publication year": "2000", "Genere": "fantasy", "
No of copies":"3","Review":"Excellent"});
       WriteResult({ "nInserted" : 1 })
db.shyam20is413.insert({"Name":"thor","Book id":"B14","Book Author":"stanly","Publication
year":"2011","Genere":"history","No of copies":"3","Review":"Excellent"});
WriteResult({ "nInserted" : 1 })
>
db.shyam20is413.insert({"Name":"loki","Book id":"B15","Book Author":"stanly","Publication
year":"2009","Genere":"history","No of copies":"3","Review":"Excellent"});
WriteResult({ "nInserted" : 1 })
> db.shyam20is413.find()
{ " id" : ObjectId("62aee693cfeb0e57327f264b"), "Name" : "Lord of the rings", "Book id" :
"B01", "Book Author": "JRR", "Publication year": "2000", "Genere": "fantasy",
"No of copies": "3", "Review": "Excellent" }
{ " id" : ObjectId("62aee6c4d39399c1e5b0d579"), "Name" : "Lord of the rings", "Book id" :
"B01", "Book Author": "JRR", "Publication year": "2000", "Genere": "fantasy",
"No of copies": "3", "Review": "Excellent" }
{ " id" : ObjectId("62aee855d39399c1e5b0d57a"), "Name" : "The hobbit", "Book id" : "B02",
"Book Author": "rowly", "Publication year": "2001", "Genere": "fantasy", "No of copies":
"2", "Review" : "Average" }
{ " id" : ObjectId("62aee8c5d39399c1e5b0d57b"), "Name" : "the devil", "Book id" : "B03",
"Book Author": "jerry", "Publication year": "2002", "Genere": "horror", "No of copies":
"2", "Review" : "Excellent" }
{ " id" : ObjectId("62aee941d39399c1e5b0d57c"), "Name" : "avengers", "Book id" : "B04",
"Book Author": "stalin", "Publication year": "2003", "Genere": "adventure", "No of copies":
"3", "Review": "Excellent" }
{ " id" : ObjectId("62aee99bd39399c1e5b0d57d"), "Name" : "iron man", "Book id" : "B04",
"Book Author": "stalin", "Publication year": "2004", "Genere": "adventure", "No of copies":
"3", "Review" : "Average" }
```

```
{ " id" : ObjectId("62aee9fed39399c1e5b0d57e"), "Name" : "The batman", "Book id" : "B05",
"Book Author": "rowling", "Publication year": "2005", "Genere": "adventure",
"No of copies": "3", "Review": "Excellent" }
{ " id" : ObjectId("62aeea4ed39399c1e5b0d57f"), "Name" : "Wonderwomen", "Book id" :
"B06", "Book Author": "Hawkin", "Publication year": "2005", "Genere": "adventure",
"No of copies": "3", "Review": "Excellent" }
{ " id" : ObjectId("62aeea98d39399c1e5b0d580"), "Name" : "The might love", "Book id" :
"B07", "Book Author": "Js john", "Publication year": "2006", "Genere": "adventure",
"No of copies": "3", "Review": "Good" }
{ " id" : ObjectId("62aeeaddd39399c1e5b0d581"), "Name" : "The lone guy", "Book id" :
"B08", "Book Author": "kennady", "Publication year": "2007", "Genere": "fantasy",
"No of copies": "2", "Review": "Good" }
{ " id" : ObjectId("62aeeb37d39399c1e5b0d582"), "Name" : "Moon Knight", "Book id" :
"B09", "Book Author": "joseph", "Publication year": "2008", "Genere": "History",
"No of copies": "3", "Review": "Good" }
{ " id" : ObjectId("62aeeb94d39399c1e5b0d583"), "Name" : "The Philosophy of love",
"Book id": "B10", "Book Author": "kennath", "Publication year": "2009", "Genere":
"romance", "No of copies" : "3", "Review" : "Bad" }
{ "id" : ObjectId("62aeebfdd39399c1e5b0d584"), "Name" : "captain steves adventure",
"Book id": "B11", "Book Author": "stanly", "Publication year": "1995", "Genere":
"adventure", "No of copies" : "3", "Review" : "Excellent" }
{ "id": ObjectId("62aeec73d39399c1e5b0d585"), "Name": "captain steves adventure",
"Book id": "B11", "Book Author": "stanly", "Publication year": "1995", "Genere":
"adventure", "No of copies": "3", "Review": "Excellent" }
{ "id": ObjectId("62aeedd6bff9c0a6eddc2571"), "Name": "the desert", "Book id": "B13".
"Book Author": "steve", "Publication year": "2010", "Genere": "history", "No of copies":
"3", "Review" : "good" }
{ " id" : ObjectId("62aeee1dbff9c0a6eddc2572"), "Name" : "thor", "Book id" : "B14",
"Book Author": "stanly", "Publication year": "2011", "Genere": "history", "No of copies":
"3", "Review" : "Excellent" }
{ " id" : ObjectId("62aeee48bff9c0a6eddc2573"), "Name" : "loki", "Book id" : "B15",
"Book Author": "stanly", "Publication_year": "2009", "Genere": "history", "No_of_copies":
"3", "Review" : "Excellent" }
```

## Queries

4. Count the number of books whose review is "Average".

db.shyam20is413.find({"Review":"Average"}).count()

```
> 
> db.Books.find({"Review":"Average"}).count()
0 
> db.shyam20is413.find({"Review":"Average"}).count()
2 
>
```

6. . Delete a book from the database whose Book\_id is B014

```
db.shyam20is413.deleteOne({"Book_id":"B14"});
```

```
{ "acknowledged" : true, "deletedCount" : 1 }
```

```
> db.shyam20is413.deleteOne({"Book_id":"B14"});
{ "acknowledged" : true, "deletedCount" : 1 }
> _
```

3.List all the books belonging to the Genre Fiction.

```
db.shyam20is413.find({"Genere":"fiction"}).pretty()
{
    "_id" : ObjectId("62aeef8c1ecf9919b9b85c23"),
    "Name" : "loki",
    "Book_id" : "B15",
    "Book_Author" : "stanly",
    "Publication_year" : "2009",
```

10. Apply Map-reduce aggregation function to project the books by their names and find the list of genres.

```
var mapf = function(){ emit(this.Name, this.Genere)}
var reducef = function(key,val) {return Array(val)}
db.shyam20is413.mapReduce(mapf,reducef,{out:"res"});
db.res.find();
> var mapf = function(){ emit(this.Name, this.Genere)}
> var reducef = function(key,val) {return Array(val)}
> db.shyam20is413.mapReduce(mapf,reducef,{out:"res"});
{ "result" : "res", "ok" : 1 }
> db.res.find();
{ "_id" : "the devil", "value" : [ [ "horror" ] ] }
{ "_id" : "The Philosophy of love", "value" : [ [ "romance" ] ] }
{ "_id" : "captain steves adventure", "value" : [ [ "adventure", "adventure" ] ] }
{ "_id" : "the desert", "value" : [ [ "history" ] ] }
{ "_id" : "loki", "value" : [ [ "fiction", "fiction", "fiction", "fiction", "history" ] ] }
{ "_id" : "avengers", "value" : [ [ "adventure" ] ] }
{ " id": "iron man", "value": [ [ "adventure" ] ] }
{ "_id" : "Lord of the rings", "value" : [ [ "fantasy", "fantasy" ] ] }
{ "_id" : "Moon Knight", "value" : [ [ "History" ] ] }
{ " id": "The hobbit", "value": [ [ "fantasy" ] ] }
{ "_id" : "Wonderwomen", "value" : [ [ "adventure" ] ] }
{ "_id" : "The batman", "value" : [ [ "adventure" ] ] }
{ "_id" : "The might love", "value" : [ [ "adventure" ] ] }
{ "_id" : "The lone guy", "value" : [ [ "fantasy" ] ] }
```

```
var mapf = function(){ emit(this.Name, this.Genere)}
var reducef = function(key,val) {return Array(val)}
vdb.shyam20is413.mapReduce(mapf,reducef,{out:"res"});
{ "result" : "res", "ok" : 1 }
vdb.res.find();
{ "id" : "the devil", "value" : [ [ "horror" ] ] }
{ "id" : "The Philosophy of love", "value" : [ [ "romance" ] ] }
{ "id" : "captain steves adventure", "value" : [ [ "adventure", "adventure" ] ] }
{ "id" : "loki", "value" : [ [ "history" ] ] }
{ "id" : "loki", "value" : [ [ "fiction", "fiction", "fiction", "history" ] ] }
{ "id" : "avengers", "value" : [ [ "adventure" ] ] }
{ "id" : "iron man", "value" : [ [ "adventure" ] ] }
{ "id" : "Mono Knight", "value" : [ [ "History" ] ] }
{ "id" : "The hobbit", "value" : [ [ "fantasy" ] ] }
{ "id" : "Wonderwomen", "value" : [ [ "adventure" ] ] }
{ "id" : "The batman", "value" : [ [ "adventure" ] ] }
{ "id" : "The might love", "value" : [ [ "adventure" ] ] }
{ "id" : "The lone guy", "value" : [ [ "fantasy" ] ] }
} -
```

9. Group all the books by their genre and identify the books with the highest review in each

```
> db.shyam20is413.aggregate([{$group: {_id: "$Genere", Highreview: {$max: "$Review"}}}])
{ "_id" : "fiction", "Highreview" : "Excellent" }
{ "_id" : "fantasy", "Highreview" : "Good" }
{ "_id" : "History", "Highreview" : "Good" }
{ "_id" : "horror", "Highreview" : "Excellent" }
{ "_id" : "adventure", "Highreview" : "Good" }
{ "_id" : "romance", "Highreview" : "Bad" }
{ "_id" : "history", "Highreview" : "good" }
>
```

7. Update the review of the books to "Excellent" if they have more than 5 copies. db.shyam20is413.updateMany({"No\_of\_copies": {\$gt: "5"}}, {\$set: {"Review": "Excellent"}}) { "acknowledged": true, "matchedCount": 1, "modifiedCount": 0 }

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