Assignment No:12

> use book switched

to db book

> db.createCollection("author")

{ "ok" : 1 }

> db.author.insertMany([{ "book_title": "MongoDB Tutorial", "author_name": "Jordan", "status": "active","publish_year": "2016" },

{ "book_title": "Software Testing Tutorial", "author_name": "Jordan", "status": "active", "publish_year": "2015" },

{"book_title": "Node.js Tutorial", "author_name": "JSC", "status": "active", "publish_year": "2016"

},

{"book_title": "PHP7 Tutorial","author_name": "Jordan", "status": "passive", "publish_year": "2016"}]);

```
{
    "acknowledged" : true,
    "insertedIds" : [
        ObjectId("66ff6ccfe35cb24f73fc58c1"),
        ObjectId("66ff6ccfe35cb24f73fc58c2"),
        ObjectId("66ff6ccfe35cb24f73fc58c3"),
        ObjectId("66ff6ccfe35cb24f73fc58c4")
    ]
}
```

> // Define the map function

> var mapFunction = function() { emit(this.author_name, 1); // Emit the author name with a count of 1};

```
> var reduceFunction = function(author, counts) {return Array.sum(counts);  //
Sum up the counts for each author};


 > db.author.mapReduce (   mapFunction,   reduceFunction,

{ out: "author_count" }  // Output collection to store the results

 );

{

     "result" : "author_count",

     "timeMillis" : 63,

     "counts" : {

          "input" : 4,

          "emit" : 4,

          "reduce" : 1,

          "output" : 2

     },

     "ok" : 1

}

> db.author_count.find().pretty();

{ "_id" : "JSC", "value" : 1 }

{ "_id" : "Jordan", "value" : 3 }
```