

Assignment No. 3(b)

Title: MongoDB – Map-reduces operations: Implement Map reduces operation with suitable example using MongoDB.

```
gescoe@gescoe-OptiPlex-3010:~$ mongo
```

```
MongoDB shell version: 3.0.15
```

```
connecting to: test
```

```
test> use Library
```

```
Library> db.books.insert([{bid:1,bname:"The Alchemist",author:"Paulo  
Coelho",price:200,status:"A"},{bid:2,bname:"The Secret",author:"Rhonda  
Byrne",price:300,status:"A"},{bid:3,bname:"Eleven Minutes",author:"Paulo  
Coelho",price:180,status:"A"},{bid:4,bname:"The Magic",author:"Rhonda  
Byrne",price:320,status:"NA"},{bid:5,bname:"Hero",author:"Rhonda  
Byrne",price:400,status:"A"},{bid:6,bname:"YOU CAN",author:"George Matthew  
Adams",price:100,status:"A"}]);
```

```
{  
  acknowledged: true,  
  insertedIds: {  
    '0': ObjectId("636a23e3c4855854011f1ec9"),  
    '1': ObjectId("636a23e3c4855854011f1eca"),  
    '2': ObjectId("636a23e3c4855854011f1ecb"),  
    '3': ObjectId("636a23e3c4855854011f1ecc"),  
    '4': ObjectId("636a23e3c4855854011f1ecd"),  
    '5': ObjectId("636a23e3c4855854011f1ece")  
  }  
}
```

```
Library> db.books.find().pretty();
```

```
[  
  {  
    _id: ObjectId("636a23e3c4855854011f1ec9"),  
    bid: 1,  
    bname: 'The Alchemist',  
    author: 'Paulo Coelho',  
    price: 200,  
    status: 'A'  
  },  
  {  
    _id: ObjectId("636a23e3c4855854011f1eca"),  
    bid: 2,  
    bname: 'The Secret',  
    author: 'Rhonda Byrne',  
    price: 300,  
    status: 'A'  
  },  
  {
```

```

    _id: ObjectId("636a23e3c4855854011f1ecb"),
    bid: 3,
    bname: 'Eleven Minutes',
    author: 'Paulo Coelho',
    price: 180,
    status: 'A'
  },
  {
    _id: ObjectId("636a23e3c4855854011f1ecc"),
    bid: 4,
    bname: 'The Magic',
    author: 'Rhonda Byrne',
    price: 320,
    status: 'NA'
  },
  {
    _id: ObjectId("636a23e3c4855854011f1ecd"),
    bid: 5,
    bname: 'Hero',
    author: 'Rhonda Byrne',
    price: 400,
    status: 'A'
  },
  {
    _id: ObjectId("636a23e3c4855854011f1ece"),
    bid: 6,
    bname: 'YOU CAN',
    author: 'George Matthew Adams',
    price: 100,
    status: 'A'
  }
]

```

*******Map Reduce*******

```

Library> db.books.mapReduce(function(){emit(this.author,this.price);},function(author,prices){return
Array.sum(prices)}},{query:{status:"A"},out:"AuthorTotalPrices"});
{ result: 'AuthorTotalPrices', ok: 1 }

```

```

Library> db.AuthorTotalPrices.find().pretty();
[
  { _id: 'Paulo Coelho', value: 380 },
  { _id: 'Rhonda Byrne', value: 700 },
  { _id: 'George Matthew Adams', value: 100 }
]

```

```

Library>

```
