## Zeal College of Engineering and Research

**Subject: DBMSL** 

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Div: B Batch: B1

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## **Group B: Practical No: 12**

**Program Statement**: MongoDB – Map-reduces operations: Implement Map reduces operation with suitable example using MongoDB.

## Code:

```
test> use map
switched to db map
map> db.createCollection("books")
{ ok: 1 }
map> db.books.insertOne({'name':'Harry Potter','pages':'100'})
 acknowledged: true,
 insertedId: ObjectId('670a1607d11af492e486b01d')
map> db.books.insertOne({'name':'Percy','pages':'200'})
 acknowledged: true,
 insertedId: ObjectId('670a1619d11af492e486b01e')
map> db.books.insertOne({'name':'X-men','pages':'300'})
 acknowledged: true,
insertedId: ObjectId('670a1630d11af492e486b01f')
map> db.books.insertOne({'name':'Catwoman','pages':'350'})
 acknowledged: true,
 insertedId: ObjectId('670a164dd11af492e486b020')
map> db.books.insertOne({'name':'Jerfrey','pages':'250'})
 acknowledged: true,
 insertedId: ObjectId('670a1665d11af492e486b021')
map> db.books.find().pretty()
  _id: ObjectId('670a1607d11af492e486b01d'),
```

```
name: 'Harry Potter',
  pages: '100'
 },
  _id: ObjectId('670a1619d11af492e486b01e'),
  name: 'Percy',
  pages: '200'
 },
  _id: ObjectId('670a1630d11af492e486b01f'),
  name: 'X-men',
  pages: '300'
 },
  _id: ObjectId('670a164dd11af492e486b020'),
  name: 'Catwoman',
  pages: '350'
 },
  _id: ObjectId('670a1665d11af492e486b021'),
  name: 'Jerfrey',
  pages: '250'
 }
]
map> var map = function()
... var category;
\dots if(this.pages>=250)
... category='Big Books';
... else category='Small Books';
... emit(category,{name:this.name});
... };
map> var reduce = function(key, values)
\dots var sum =0;
... values.forEach(function(doc)
... sum = sum + 1;
... });
... return{books:sum};};
map> var count = db.books.mapReduce(map,reduce, {out:"book_results"});
DeprecationWarning: Collection.mapReduce() is deprecated. Use an aggregation instead.
See https://docs.mongodb.com/manual/core/map-reduce for details.
map> db[count.result].find()
 { _id: 'Big Books', value: { books: 3 } },
 { _id: 'Small Books', value: { books: 2 } }]
```