*Assignment 12*

***Example1 MapReduce function***

***• Consider the following document structure that stores book details***

***author wise. The document stores author\_name of the book author and***

***the status of book.***

***Map Reduce :***

• > db.author.save({

"book\_title" : "MongoDB Tutorial", "author\_name" : "aparajita",

"status" : "active", "publish\_year": "2016" })

• > db.author.save({

"book\_title" : "Software Testing Tutorial", "author\_name" : "aparajita",

"status" : "active", "publish\_year": "2015" })

• > db.author.save({

"book\_title" : "Node.js Tutorial", "author\_name" : “Kritika",

"status" : "active", "publish\_year": "2016" })

• > db.author.save({

"book\_title" : "PHP7 Tutorial", "author\_name" : "aparajita",

"status" : “passive", "publish\_year": "2016" })

db.author.mapReduce(

... function() { emit(this.author\_name,1) },

... function(key, values) {return Array.sum(values)},

... { query:{status:"active"}, out:"author\_total" } ).find()

{ "\_id" : "Kritika", "value" : 1 }

{ "\_id" : "aparajita", "value" : 2 }

> db.author.mapReduce( function() { emit(this.author\_name,1) }, function(key, values) {return

Array.sum(values)}, { query:{status:"active"}, out:"author\_total" } )

{

"result" : "author\_total",

"timeMillis" : 722,

"counts" : {

"input" : 3,

"emit" : 3,

"reduce" : 1,

"output" : 2

},

"ok" : 1

}