ASSIGNMENT NO : 3 (B)

Name : Ronak Sanjay Rahane
Roll No : 26
Batch : TE - B2

PROBLEM STATEMENT :

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

Output :

gescoe@gescoe-OptiPlex-3010:~$ mongo
MongoDB shell version: 2.6.12
connecting to: test
> use TEB_26;
switched to db TEB_26
> db.Record.insert({"Branch":"Computer","Marks":950,"Division":"B"});
WriteResult({ "nInserted" : 1 })
> db.Record.insert({"Branch":"Computer","Marks":700,"Division":"B"});
WriteResult({ "nInserted" : 1 })
> db.Record.insert({"Branch":"AIDS","Marks":820,"Division":"A"});
WriteResult({ "nInserted" : 1 })
> db.Record.insert({"Branch":"AIDS","Marks":650,"Division":"B"});
WriteResult({ "nInserted" : 1 })
> db.Record.find().pretty();
{
"_id" : ObjectId("66f12b91e8870de812a53430"),
"Branch" : "Computer",
"Marks" : 950,
"Division" : "B"
}
{
"_id" : ObjectId("66f12bb4e8870de812a53431"),
"Branch" : "Computer",
"Marks" : 700,
"Division" : "B"
}
{
"_id" : ObjectId("66f12bcce8870de812a53432"),
"Branch" : "AIDS",
"Marks" : 820,
"Division" : "A"
}
{

```
"_id" : ObjectId("66f12be8e8870de812a53433"),
"Branch" : "AIDS",
"Marks" : 650,
"Division" : "B"
}> db.Record.mapReduce(function(){emit(this.Branch, this.Marks);},
... function(key, values) {return Array.sum( values)},
... { query : {Division : "B"},
out : "Total_marks"
... }
... );
{
"result" : "Total_marks",
"timeMillis" : 87,
"counts" : {
"input" : 3,
"emit" : 3,
"reduce" : 1,
"output" : 2
},
"ok" : 1
}
> show collections;
Record
Student
Total_marks
System.indexes
> db.Total_marks.find().pretty();
{ "_id" : "AIDS", "value" : 650 }
{ "_id" : "Computer", "value" : 1650 }
>
```

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