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Group B - 4
Stu.json:
{"roll": "1", "name" : "Akshay", "Marks":37}
{"roll": "2", "name" : "Sourabh", "Marks":40} {"roll": "3", "name" :
"Avesh", "Marks":42}
{"roll": "1", "name" : "Akshay", "Marks":45}
{"roll": "2", "name" : "Sourabh", "Marks": 47} {"roll": "3", "name" :
"Avesh", "Marks":40}
{"roll": "1", "name" : "Akshay", "Marks":39}
{"roll": "2", "name" : "Sourabh", "Marks": 40} {"roll": "3", "name" :
"Avesh", "Marks":45}
Steps to run :
1. import .json file
root@student:/home/student# mongoimport --db stu --collection student --
file
/home/student/Desktop/stu.json
2017-09-25T17:08:54.631+0530 connected to: localhost
2017-09-25T17:08:54.775+0530 imported 9 documents
2. mongo shell
root@student:/home/student# mongo MongoDB shell version v3.4.6
connecting to: mongodb://127.0.0.1:27017 MongoDB server version: 3.4.6
> use stu
switched to db stu
> db.student.find();
{ " id" : ObjectId("59c8eacee47427a086254422"), "roll" : "1", "name" :
"Akshay", "Marks" : 45 }
{ "id": ObjectId("59c8eacee47427a086254423"), "roll": "1", "name":
"Akshay", "Marks" : 37 }
{ "id": ObjectId("59c8eacee47427a086254424"), "roll": "2", "name":
"Sourabh", "Marks" : 47 }
{ "id": ObjectId("59c8eacee47427a086254425"), "roll": "3", "name":
"Avesh", "Marks" : 42 }
{ "id": ObjectId("59c8eacee47427a086254426"), "roll": "2", "name":
"Sourabh", "Marks" : 40 }
{ "id": ObjectId("59c8eacee47427a086254427"), "roll": "3", "name":
"Avesh", "Marks" : 45 }
{ " id" : ObjectId("59c8eacee47427a086254428"), "roll" : "3", "name" :
"Avesh", "Marks" : 40 }
{ " id" : ObjectId("59c8eacee47427a086254429"), "roll" : "1", "name" :
"Akshay", "Marks" : 39 }
{ "id": ObjectId("59c8eacee47427a08625442a"), "roll": "2", "name":
"Sourabh", "Marks" : 40 }
Map Reduce Function
> var Mapfunction = function() {emit(this.roll,this.Marks)}
> var Reducefunction = function(key,values) {return Array.sum(values)}
> db.student.mapReduce(Mapfunction, Reducefunction, {'out':'MR Result'})
"result" : "MR Result",
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"timeMillis": 575,

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"counts" : {
"input" : 9,
"emit" : 9,
"reduce" : 3,
"output" : 3
"ok" : 1
> db.MR Result.find();
{ "_id" : "1", "value" : 121 }
{ "_id" : "2", "value" : 127 }
{ "_id" : "3", "value" : 127 }
> var Mapfunction = function() {emit(this.roll,this.Marks)}
> var Reducefunction = function(key,values){return Array.avg(values)}
> db.student.mapReduce(Mapfunction, Reducefunction, {'out':'MR Result'})
"result" : "MR Result",
"timeMillis": 395,
"counts" : {
"input" : 9,
"emit" : 9,
"reduce" : 3,
"output" : 3
"ok" : 1
> show tables;
MR Result student
Showing result
> db.MR Result.find();
```