BIG DATA LAB

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SEC:C1

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Insert data

>db.Data.insertMany([{"Name":"Rani","age":22,"gender":"F"},{"Name":"Mohan","age":20,"gender":"F"}, {"Name":"Sita","age":21,"gender":"F"}])

```
db.Data.updateOne({Name:"Sita"}, {$set:{"age":23}})

{    acknowledged: true,
        insertedId: null,
    matchedCount: 1,
    modifiedCount: 0 }

} db.Data.find()

{    _id: ObjectId("627a6c7f58fba022eb190969"),
    Name: 'Rani',
    age: 22,
    gender: 'F' }

{    _id: ObjectId("627a6c7f58fba022eb19096a"),
    Name: 'Mohan',
    age: 20,
    gender: 'F' }

{    _id: ObjectId("627a6c7f58fba022eb19096b"),
    Name: 'Sita',
    age: 23,
    gender: 'F' }
```

MAP REDUCE FUNCTIONS

AVERAGE:

```
>var map=function(){emit(this.name,this.age)};
>var reduce=function(name,age){return Array.avg(age);};
>db.Data.mapReduce(map,reduce,{out:"newcollection"});
>db.newcollection.find()
```

```
> var map=function() {emit(this.Name, this.age) };
> var reduce=function(Name, age) {return Array.avg(age);};
> db.Data.mapReduce(map, reduce, {out: "newcollection"});
< { result: 'newcollection', ok: 1 }
> db.newcollection.find()
< { _id: 'Mohan', value: 20 }
    { _id: 'Rani', value: 22 }
    { _id: 'Sita', value: 23 }</pre>
```

SUM:

```
>var map=function(){emit(this.name,this.age)};
>var reduce=function(name,age){return Array.avg(age);};
>db.Data.mapReduce(map,reduce,{out:"newcollection"});
>db.newcollection.find()
```

```
> var map=function() {emit(this.Name, this.age)};
> var reduce=function(Name, age) {return Array.sum(age);};
> db.Data.mapReduce(map, reduce, {out: "newcollection"});
< { result: 'newcollection', ok: 1 }
> db.newcollection.find()
< { _id: 'Rani', value: 22 }
    { _id: 'Sita', value: 23 }
    { _id: 'Mohan', value: 20 }</pre>
```