

Assignment No : 11

Aim:- Implement Map Reduce Operation with Suitable Example using MongoDB

```
(base) sspm@sspm:~$ sudo su [sudo]
```

password for sspm:

```
root@sspm:/home/sspm# mongo
```

MongoDB shell version v3.6.8 connecting

to: mongodb://127.0.0.1:27017

Implicit session: session { "id" : UUID("38d101e8-1498-4ac1-8530-c259e4f54dc2") }

MongoDB server version: 3.6.8

Server has startup warnings:

2024-10-14T13:45:51.130+0530 I STORAGE [initandlisten]

2024-10-14T13:45:51.130+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine

2024-10-14T13:45:51.130+0530 I STORAGE [initandlisten] ** See <http://dochub.mongodb.org/core/prodnotes-filesystem>

2024-10-14T13:45:54.399+0530 I CONTROL [initandlisten]

2024-10-14T13:45:54.399+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.

2024-10-14T13:45:54.399+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.

2024-10-14T13:45:54.399+0530 I CONTROL [initandlisten]

```
> db.createCollection("order")
```

```
{ "ok" : 1 }
```

```
> db.order.insert({id:1,name:'rohit',amount:5000,status:'A'})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({id:1,name:'yash',amount:5000,status:'A'})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({id:1,name:'omkar',amount:4000,status:'A'})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({id:1,name:'vivek',amount:40000,status:'A'})
```

```
WriteResult({ "nInserted" : 1 })

> db.order.insert({id:2,name:'jay',amount:40000,status:'D'})

WriteResult({ "nInserted" : 1 })

> db.order.find().pretty() {
  "_id" : ObjectId("670cdd609a106bcd44356e2e"),
  "id" : 1,
  "name" : "rohit", "amount" :
  5000,
  "status" : "A" } {
  "_id" : ObjectId("670cdd739a106bcd44356e2f"),
  "id" : 1,
  "name" : "yash", "amount" :
  5000,
  "status" : "A" } {
  "_id" : ObjectId("670cdd829a106bcd44356e30"),
  "id" : 1,
  "name" : "omkar",
  "amount" : 4000,
  "status" : "A" } {
  "_id" : ObjectId("670cdd979a106bcd44356e31"),
  "id" : 1,
  "name" : "vivek",
  "amount" : 40000,
  "status" : "A" } {
  "_id" : ObjectId("670cddb69a106bcd44356e32"),
  "id" : 2,
  "name" : "jay",
  "amount" : 40000,
  "status" : "D"
}
```

```
> db.order.mapReduce(function(){emit(this.id,this.amount);},function(key,values){return
Array.sum(values)}},{query:{status:"A"},out:"final"})
```

```
{
  "result" : "final",
  "timeMillis" : 301,
  "counts" : {
    "input" : 4,
    "emit" : 4,
    "reduce" : 1,
    "output" : 1
  },
  "ok" : 1
}
```

```
> db.final.find().pretty()
```

```
{ "_id" : 1, "value" : 54000 }
```

```
>
```