

Example 1:

mongo

MongoDB shell version: 2.6.10

connecting to: test

Server has startup warnings:

2023-10-14T12:27:08.545+0530 [initandlisten]

2023-10-14T12:27:08.545+0530 [initandlisten] \*\* NOTE: This is a 32 bit MongoDB binary.

2023-10-14T12:27:08.545+0530 [initandlisten] \*\* 32 bit builds are limited to less than 2GB of data (or less with --journal).

2023-10-14T12:27:08.545+0530 [initandlisten] \*\* See

<http://dochub.mongodb.org/core/32bit>

2023-10-14T12:27:08.545+0530 [initandlisten]

> use database mapreduce

2023-10-14T12:58:53.563+0530 Error: [database mapreduce] is not a valid database name at src/mongo/shell/mongo.js:41

>

>

>

> use mapreduce

switched to db mapreduce

> db.createCollection("book")

{ "ok" : 1 }

>

db.book.insert([{bookname:"DSA",authname:"ABC",status:"active"},{bookname:"DBMS",authname:"XYZ",status:"passive"},{bookname:"FDS",authname:"ABC",status:"active"}])

```
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 3,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
```

> db.book.mapReduce(function(){emit(this.authname,1)},function(key,value){return Array.sum(value)},{query:{status:"active"},out:"book\_total"}).find()

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

>

> db.book.mapReduce(function(){emit(this.authname,1);},function(key,values){return Array.sum(values)},{query:{status:"active"},out:"book\_total"})

```
{
  "result" : "book_total",
  "timeMillis" : 21,
  "counts" : {
```

```

        "input" : 2,
        "emit" : 2,
        "reduce" : 1,
        "output" : 1
    },
    "ok" : 1
}

```

Example 2:

```

> db.createCollection("student")
{ "ok" : 1 }
>
db.student.insert([{name:"Gauri",marks:90},{name:"ankita",marks:92},{name:"rashmi",marks:
94}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 3,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})

> db.student.mapReduce(function(){emit(this.name,1)},function(key,values){return
Array.sum(values)},{out:"student_total"})
{
  "result" : "student_total",
  "timeMillis" : 5,
  "counts" : {
    "input" : 3,
    "emit" : 3,
    "reduce" : 0,
    "output" : 3
  },
  "ok" : 1
}

> db.student.mapReduce(function(){emit(this.name,1)},function(key,values){return
Array.sum(values)},{out:"student_total"}).find()
{ "_id" : "Gauri", "value" : 1 }
{ "_id" : "ankita", "value" : 1 }
{ "_id" : "rashmi", "value" : 1 }

```

```
> db.student.mapReduce(function(){emit(this.name,this.marks)},function(key,values){return
Array.sum(values)},{out:"total_marks"}).find()
{ "_id" : "Gauri", "value" : 90 }
{ "_id" : "ankita", "value" : 92 }
{ "_id" : "rashmi", "value" : 94 }
```

```
> db.student.mapReduce(function(){emit(this.name,1)},function(key,values){return
Array.sum(values)},{out:"name_total"}).find().sort({value:1})
{ "_id" : "Gauri", "value" : 1 }
{ "_id" : "ankita", "value" : 1 }
{ "_id" : "rashmi", "value" : 1 }
> db.student.mapReduce(function(){emit(this.name,1)},function(key,values){return
Array.sum(values)},{out:"name_total"}).find().limit(1)
{ "_id" : "Gauri", "value" : 1 }
```