

Practical-11

Current Mongosh Log ID: 68ffcd2c20201519fdcebea3

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.8

Using MongoDB: 8.2.1

Using Mongosh: 2.5.8

For mongosh info see: <https://www.mongodb.com/docs/mongodb-shell/>

The server generated these startup warnings when booting

2025-10-23T11:59:30.250+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

```
test> show dbs
admin    40.00 KiB
collegeDB 88.00 KiB
config    108.00 KiB
local     72.00 KiB
seed      76.00 KiB
student   40.00 KiB
test> use collegeDB;
switched to db collegeDB
collegeDB> db.students.deleteMany({})
{ acknowledged: true, deletedCount: 6 }
collegeDB> db.results.insertMany([
...  { name: "Aniket Kamble", subject: "Math", marks: 85 },
...  { name: "Aniket Kamble", subject: "Science", marks: 90 },
...  { name: "Riya Patel", subject: "Math", marks: 95 },
...  { name: "Riya Patel", subject: "Science", marks: 88 },
...  { name: "Amit Sharma", subject: "Math", marks: 70 },
...  { name: "Amit Sharma", subject: "Science", marks: 75 }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('68ffce1020201519fdcebea4'),
    '1': ObjectId('68ffce1020201519fdcebea5'),
    '2': ObjectId('68ffce1020201519fdcebea6'),
    '3': ObjectId('68ffce1020201519fdcebea7'),
    '4': ObjectId('68ffce1020201519fdcebea8'),
    '5': ObjectId('68ffce1020201519fdcebea9')
  }
}
```

```
collegeDB> var mapFunction = function() {  
...   emit(this.name, this.marks);  
... };  
...  
collegeDB> var reduceFunction = function(key, values) {  
...   return Array.sum(values) / values.length;  
... };  
...  
collegeDB> db.results.mapReduce(  
...   mapFunction,  
...   reduceFunction,  
...   { out: "avg_marks_per_student" }  
... );  
...  
DeprecationWarning: Collection.mapReduce() is deprecated. Use an aggregation instead.  
See https://mongodb.com/docs/manual/core/map-reduce for details.  
{ result: 'avg_marks_per_student', ok: 1 }  
collegeDB> db.avg_marks_per_student.find();  
[  
  { _id: 'Amit Sharma', value: 72.5 },  
  { _id: 'Aniket Kamble', value: 87.5 },  
  { _id: 'Riya Patel', value: 91.5 }  
]  
collegeDB>
```