

10-05-2022
Shwetha
1NT19IS152

1) Aggregation pipeline:

```
> db.mycollection.aggregate([{$match:{marks:100}},{$group:{_id:"$sec",total:{$sum:"$sec"}}}])
{ "_id" : "a", "total" : 0 }
{ "_id" : "c", "total" : 0 }
```

2) Map Reduce:

```
> var map=function(){emit(this.sec,this.marks)};
> var reduce=function(sec,marks){return Array.sum(marks)};
> db.mycollection.mapReduce(map,reduce,{out:"resultCollection1"});
{ "result" : "resultCollection1", "ok" : 1 }
> db.resultCollection1.find().pretty()
{ "_id" : "a", "value" : 195 }
{ "_id" : "c", "value" : 100 }
```

```
> var map=function(){emit(this.sec,this.marks)};
> var reduce=function(sec,marks){return Array.sum(marks)};
> db.mycollection.mapReduce(map,reduce,{out:"resultCollection1"});
{ "result" : "resultCollection1", "ok" : 1 }
> db.resultCollection1.find().pretty()
{ "_id" : "a", "value" : 195 }
{ "_id" : "c", "value" : 100 }
```

```
> var map=function(){emit(this.sec,this.marks)};
> var reduce=function(sec,marks){return Array.avg(marks)};
> db.mycollection.mapReduce(map,reduce,{out:"resultCollection2"});
{ "result" : "resultCollection2", "ok" : 1 }
> db.resultCollection2.find().pretty()
{ "_id" : "a", "value" : 97.5 }
{ "_id" : "c", "value" : 100 }
```