

Assignment No 11

```
use db
switched to db db
db.createCollection("map")
{ ok: 1 }
use map;
switched to db map
use db
switched to db db
db.map.insertOne({roll:"Yewale",fees:20000,status:"paid"})
{
  acknowledged: true,
  insertedId: ObjectId('671663b9e44fdefd052588a1')
}
db.map.insertMany([{roll:02,fees:25000,status:"Not paid"},{roll:03,fees:30000,status:"paid"}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('67166471e44fdefd052588a2'),
    '1': ObjectId('67166471e44fdefd052588a3')
  }
}
db.map.update({fees:20000},{set:{roll:01}})
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
```

```
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
  db.map.find().pretty()
  {
    _id: ObjectId('671663b9e44fdefd052588a1'),
    roll: 1,
    fees: 20000,
    status: 'paid'
  }
  {
    _id: ObjectId('67166471e44fdefd052588a2'),
    roll: 2,
    fees: 25000,
    status: 'Not paid'
  }
  {
    _id: ObjectId('67166471e44fdefd052588a3'),
    roll: 3,
    fees: 30000,
    status: 'paid'
  }
  use db
  switched to db db
  db.dbms.aggregate([{$group: {_id: "$subject", marks: {$max: "$marks"}}}])
  {
    _id: 'CG',
    marks: 88
  }
```

```
}  
  
{  
  _id: 'TOC',  
  marks: 78  
}  
  
{  
  _id: 'CNS',  
  marks: 80  
}  
  
{  
  _id: 'DBMS',  
  marks: 79  
}  
  
db.dbms.aggregate([{$group: {_id: "$subject", marks: {$avg: "$marks"}}}])  
  
{  
  _id: 'CG',  
  marks: 88  
}  
  
{  
  _id: 'TOC',  
  marks: 78  
}  
  
{  
  _id: 'CNS',  
  marks: 80  
}  
  
{  
  _id: 'DBMS',  
  marks: 79
```

```

}

db.map.mapReduce(
  function() {emit(this.roll,1);}, //map function
  function(key,values) {return Array.sum(values)}, { //reduce function
    query: {status:"paid"},
    out:"total",

  }
)

```

DeprecationWarning: Collection.mapReduce() is deprecated. Use an aggregation instead.

See <https://docs.mongodb.com/manual/core/map-reduce> for details.

```
{ result: 'total', ok: 1 }
```

```
db.total.find()
```

```

{
  _id: 1,
  value: 1
}
{
  _id: 3,
  value: 2
}
{
  _id: 2,
  value: 2
}

```

```

db.map.mapReduce(
  function() {emit(this.roll,1);}, //map function
  function(key,values) {return Array.avg(values)}, { //reduce function
    query: {status:"paid"},

```

```
    out:"total",

  }
)
{ result: 'total', ok: 1 }
db.total.find()
{
  _id: 2,
  value: 1
}
{
  _id: 1,
  value: 1
}
{
  _id: 3,
  value: 1
}
```