RHYTHM 21CSU079 FSA

DATA---

```
test> use office
switched to db office
office> db.employee.insertMany([ { "emono": 111, "ename": "Deepali Vaidya", "sal": 40000.00, "dept": { "d
eptno": 12, "dname": "Hr", "dloc": "Mumbai" }, "Desg": "Analyst", "Bonus": 8000, "mgr": { "name": "Satish",
"num": 111 }, "project": [ { "name": "Project- 1", "Hrs": 4 }, { "name": "project- 2", "Hrs": 4 } ] }, { "emono": 1
21, "ename": "Rhythm Arora", "sal": 50000.00, "dept": { "deptno": 22, "dname": "CS", "dloc": "Delhi" }, "De
sg": "Tester", "Bonus": 8000, "mgr": { "name": "Onkar", "num": 121 }, "project": [ { "name": "Project- 3", "Hr
s": 4 }, { "name": "project- 4", "Hrs": 4 } ] }, { "emono": 131, "ename": "Shreya", "sal": 30000.00, "dept": { "d
eptno": 32, "dname": "Hr", "dloc": "Gurugram" }, "Desg": "Backend", "Bonus": 8000, "mgr": { "name": "Anjal
i", "num": 131 }, "project": [ { "name": "Project- 5", "Hrs": 4 }, { "name": "project- 6", "Hrs": 4 } ] }, { "emono":
 141, "ename": "Paritosh", "sal": 40000.00, "dept": { "deptno": 42, "dname": "Hr", "dloc": "Dwarka" }, "Desg
": "Analyst", "mgr": { "name": "Satish", "num": 141 }, "project": [ { "name": "Project- 6", "Hrs": 4 }, { "name":
"project- 7", "Hrs": 4 } ] } ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64e9673369118184c8eafe2f"),
    '1': ObjectId("64e9673369118184c8eafe30"),
    '2': ObjectId("64e9673369118184c8eafe31"),
    '3': ObjectId("64e9673369118184c8eafe32")
  }
}
office> db.employee.find().pretty()
[
  {
    _id: ObjectId("64e6d2e660b623f33105d1fc"),
    emono: 111,
    ename: 'Deepali Vaidya',
    sal: 40000,
    dept: { deptno: 12, dname: 'Hr', dloc: 'Mumbai' },
    desg: 'Analyst',
    bonus: 7000,
    mgr: { name: 'Satish', num: 111 },
    project: [ { name: 'Project-1', Hrs: 4 }, { name: 'Project-2', Hrs: 4 } ]
  },
  {
    _id: ObjectId("64e9673369118184c8eafe2f"),
    emono: 111,
    ename: 'Deepali Vaidya',
    sal: 40000,
    dept: { deptno: 12, dname: 'Hr', dloc: 'Mumbai' },
    Desg: 'Analyst',
    Bonus: 8000,
    mgr: { name: 'Satish', num: 111 },
    project: [ { name: 'Project- 1', Hrs: 4 }, { name: 'project- 2', Hrs: 4 } ]
  },
  {
    _id: ObjectId("64e9673369118184c8eafe30"),
    emono: 121,
    ename: 'Rhythm Arora',
    sal: 50000,
```

```
      dept: { deptno: 22, dname: 'CS', dloc: 'Delhi' },
      Desg: 'Tester',
      Bonus: 8000,
      mgr: { name: 'Onkar', num: 121 },
      project: [ { name: 'Project- 3', Hrs: 4 }, { name: 'project- 4', Hrs: 4 } ]
   },
   {
      _id: ObjectId("64e9673369118184c8eafe31"),
      emono: 131,
      ename: 'Shreya',
      sal: 30000,
      dept: { deptno: 32, dname: 'Hr', dloc: 'Gurugram' },
      Desg: 'Backend',
      Bonus: 8000,
      mgr: { name: 'Anjali', num: 131 },
      project: [ { name: 'Project- 5', Hrs: 4 }, { name: 'project- 6', Hrs: 4 } ]
   },
   {
      _id: ObjectId("64e9673369118184c8eafe32"),
      emono: 141,
      ename: 'Paritosh',
      sal: 40000,
      dept: { deptno: 42, dname: 'Hr', dloc: 'Dwarka' },
      Desg: 'Analyst',
      mgr: { name: 'Satish', num: 141 },
      project: [ { name: 'Project- 6', Hrs: 4 }, { name: 'project- 7', Hrs: 4 } ]
   }
]
```

QUERIES------

```
1)office> db.employee.updateMany({Desg:"CLERK"},{$set:{Desg:"AO"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

2)office> db.employee.updateMany({Desg:"Analyst",project:"Project-1"},{$set:{"project.Hrs":5}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

3)office> db.employee.updateMany({ename:"Shreya"},{$push:{project:{$each: [{name:"Project-3",Hrs:2},{
name:"Project-4",Hrs:2}]}}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
```

```
  modifiedCount: 1,
  upsertedCount: 0
}

4)office> db.employee.updateMany({sal:{$gt:50000}},{$inc:{Bonus:2000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
office> db.employee.updateMany({sal:{$gt:40000}},{$inc:{Bonus:2000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
office> db.employee.updateMany({sal:{$gt:30000}},{$inc:{Bonus:1500}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
office> db.employee.updateMany({sal:{$lt:50000}},{$inc:{Bonus:1000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}

5)office> db.employee.updateMany({"mgr.name":"Satish"},{$set:{"mgr.name":"Tushar","mgr.num":3333}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}

6)office> db.employee.updateMany({"dept.dname":"Hr"},{$inc:{sal:15000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 4,
  upsertedCount: 0
}
```

```
7)office> db.employee.updateMany({"project.name":"Project-2"},{$inc:{"project.$.Hrs":-2}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
8)office> db.employee.updateMany({"project.name":"Project-2","project.Hrs":4},{$pull:{"project":{name:"Pr
oject-2"}}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

9)office> db.employee.updateMany({sal:{$lt:10000}},{$set:{sal:10000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

10)office> db.employee.updateMany({$or:[{bonus:{$lt:2000}},{sal:{$lt:20000}},{"dept.dname":"Sales"}]},{$i
nc:{bonus:500}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

11)office> db.employee.updateMany({$or:[{desg:"Analyst"},{sal:{$in:[30000,33000,35000]}}]},{$push:{proj
ect:[{name:"Pro-1",Hrs:1},{name:"Pro-2",Hrs:1}],$position:2}})
MongoServerError: The dollar ($) prefixed field '$position' in '$position' is not allowed in the context of an
update's replacement document. Consider using an aggregation pipeline with $replaceWith.

12)office> db.employee.updateMany({"dept.dname":"Hr","dept.dloc":"Mumbai"},{$pop:{project:1}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}

13)office> db.employee.updateMany({"project.name":"Project-1","project.Hrs":4},{$set:{Desg:"Senior Prog
rammer"}})
{
  acknowledged: true,
```

```
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

14)office> db.employee.updateMany({$or:[{"mgr.name":"Rajan"},{"mgr.name":"Revati"}]},{$set:{hobbies:["
Dance","Music"]}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
office> db.employee.updateMany({$or:[{"mgr.name":"Tushar"},{"mgr.name":"Revati"}]},{$set:{hobbies:["Da
nce","Music"]
... }})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}

15)office> db.employee.updateMany({ $or: [{ "project.name": "Project-3","project.Hrs":4 }, { "project.name"
: "Project-4","project.Hrs":3 }] }, { $set: { skillset: ["FullStack", "Java Developer"] } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

16)

17)office> db.employee.updateMany({ $or: [{ "project.name": "Project-3" }, { "project.name": "Project-2"},{"
project.name":"Project- 1" }] }, { $inc:{sal:10000} })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}

office> db.employee.updateMany({"dept.dloc":"Mumbai"},{$inc:{bonus:-1000,salary:1000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
```

```
}

18)office> db.employee.deleteMany({"project.name":"Project-1"})
{ acknowledged: true, deletedCount: 1 }

19)office> db.employee.replaceOne({ename:"Deepali Vaidya"},{"emono": 111, "ename": "Deepak", "sal":
40000.00, "dept": { "deptno": 12, "dname": "Hr", "dloc": "Mumbai" }, "Desg": "Analyst", "Bonus": 8000, "mgr
": { "name": "Satish", "num": 111 }, "project": [ { "name": "Project- 1", "Hrs": 4 }, { "name": "project- 2", "Hrs"
: 4 } ]})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

20)office> db.employee.updateMany({skillset:"Python"},{$set:{"skillset.$":"Python 3.8"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

21)office> db.employee.updateMany({"dept.dloc":"Dwarka"},{$push:{skillset:{$each:["MongoDb","Perl"]}}})

{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

22)office> db.employee.updateMany({$or:[{"project.name":"Project- 6"},{"project.name":"Project- 7"}]},{$p
op:{hobbies:-1}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

23)office> db.employee.updateMany({"project.$size":2},{$pop:{hobbies:1}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

24)office> db.employee.updateMany({skillset:{$in:["Perl","Python"]}},{$push:{"project":[{name:"Pro-3", Hrs: 3},{name:"Pro-4", Hrs:3}]}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
25)office> db.employee.updateMany({"project.name":"Project- 6","project.Hrs":{$lt:6}},{$set:{"project.$.Hrs":6}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

FINAL DATA-----

office> db.employee.find()
[
  {
    _id: ObjectId("64e6d2e660b623f33105d1fc"),
    emono: 111,
    ename: 'Deepak',
    sal: 40000,
    dept: { deptno: 12, dname: 'Hr', dloc: 'Mumbai' },
    Desg: 'Analyst',
    Bonus: 8000,
    mgr: { name: 'Satish', num: 111 },
    project: [ { name: 'Project- 1', Hrs: 4 }, { name: 'project- 2', Hrs: 4 } ]
  },
  {
    _id: ObjectId("64e9673369118184c8eafe2f"),
    emono: 111,
    ename: 'Deepali Vaidya',
    sal: 75000,
    dept: { deptno: 12, dname: 'Hr', dloc: 'Mumbai' },
    Desg: 'Analyst',
    Bonus: 8000,
    mgr: { name: 'Tushar', num: 3333 },
    project: [],
    hobbies: [ 'Dance', 'Music' ],
    bonus: -1000,
    salary: 1000
  },
  {
    _id: ObjectId("64e9673369118184c8eafe30"),
    emono: 121,
    ename: 'Rhythm Arora',
    sal: 50000,
    dept: { deptno: 22, dname: 'CS', dloc: 'Delhi' },
    Desg: 'Tester',

```
    Bonus: 10000,
    mgr: { name: 'Onkar', num: 121 },
    project: [ { name: 'Project- 3', Hrs: 4 }, { name: 'project- 4', Hrs: 4 } ]
  },
  {
    _id: ObjectId("64e9673369118184c8eafe31"),
    emono: 131,
    ename: 'Shreya',
    sal: 65000,
    dept: { deptno: 32, dname: 'Hr', dloc: 'Gurugram' },
    Desg: 'Backend',
    Bonus: 9500,
    mgr: { name: 'Anjali', num: 131 },
    project: [
      { name: 'Project- 5', Hrs: 4 },
      { name: 'project- 6', Hrs: 4 },
      { name: 'Project-3', Hrs: 2 },
      { name: 'Project-4', Hrs: 2 }
    ],
    skillset: [ 'FullStack', 'Java Developer' ]
  },
  {
    _id: ObjectId("64e9673369118184c8eafe32"),
    emono: 141,
    ename: 'Paritosh',
    sal: 55000,
    dept: { deptno: 42, dname: 'Hr', dloc: 'Dwarka' },
    Desg: 'Analyst',
    mgr: { name: 'Tushar', num: 3333 },
    project: [
      { name: 'Project- 6', Hrs: 6 },
      { name: 'project- 7', Hrs: 6 },
      [ { name: 'Pro-3', Hrs: 3 }, { name: 'Pro-4', Hrs: 3 } ]
    ],
    hobbies: [ 'Music' ],
    skillset: [ 'MongoDb', 'Perl' ]
  },
  { _id: ObjectId("64e9cc723ee5cae0dc65c782"), emono: 111 }
]
```