DATABASE ASSIGNMENT 13

Create a Employee Collection add 5 documents:

```
Example:
```

```
{emono:111,ename:"Deepali
Vaidya",sal:40000.00,dept:{deptno:12,dname:,"Hr",dloc:"Mumbai},
Desg:"Analyst",mgr:{name:"Satish",num:111},project:
[{name:"Project-1",Hrs:4},{name:"project-2",Hrs:4}]}
```

1. All Employee's with the desg as 'CLERK' are now called as (AO) Administrative Officers. Update the Employee collection for this.

2. Change the number of hours for project-1 to 5 for all employees with designation analyst.

```
iacsd0324> db.employee.updateMany(
... { desg: "analyst" },
... { $set: { "projects.$[elem].Hrs": 5 } },
... { arrayFilters: [ { "elem.name": "project-1" } ] }
... )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
}
```

 Add 2 projects project-3 and project-4 for employee whose name starts with "Deep" with 2 hrs db.emp.update({name:/^Deep/},{\$push:{project:{\$each:[{name:'project-4',Hrs:2}]}}})

{multi:true})

4. Add bonus rs 2000 for all employees with salary > 50000

```
iacsd0324> db.emp.updateMany(
... { salary: { $gt: 50000 } },
... { $inc: { bonus: 2000 } }
... )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
}
iacsd0324>
```

5. add bonus 1500 if salary <50000 and > 30000

6. add bonus 1000 if salary <= 30000

7. Change manager name to Tushar for all employees whose manager is currently "satish" And manager number to 3333

8. Increase salary of all employees from "purchase department" by 15000

```
iacsd0324> db.emp.updateMany(
... { department: "purchase department" },
... { $inc: { salary: 15000 } }
... )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
}
iacsd0324>
```

9. Decrease number of hrs by 2 for all employees who are working on project-2

```
iacsd0324> db.emp.updateMany(
... { "projects.name": "project-2" },
... { $inc: { "projects.$.Hrs": -2 } }
... )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
}
iacsd0324>
```

10. Delete project-2 from all employee document if they are working on the project for 4 hrs.

```
db.emp.update({},{$pull:{"project.name":"project-
2","project.Hrs":4}},{multi:true})
```

```
or db.Emp.update({},{$pull:{project:{name:'project-2',Hrs:4}}},{multi:true}) or
```

```
db.emp.update({},{$pull:{"project:{$elemMatch:{name:"project-
2","Hrs":4}},{multi:true})
```

11. Change the salary of employees to 10000 only if their salary is < 10000

12. Increase bonus of all employees by 500 if the bonus is <2000 or their salary is < 20000 or if employee belong to sales department

13. Add 2 new project at position 2 for all employees with designation analyst or salary is equal to either 30000 or 33000 or 35000

```
iacsd0324> db.emp.updateMany(
            $or: [
                { desg: "analyst" },
                { salary: { $in: [30000, 33000, 35000] } }
            ]
            $push: {
                projects: {
                    $each: [
                         { name: "project-3", Hrs: 0 },
                         { name: "project-4", Hrs: 0 }
                    $position: 1
                }
        }
 acknowledged: true,
 insertedId: null,
 matchedCount: 0,
 modifiedCount: 0,
 upsertedCount: 0
iacsd0324>
```

14. Delete last project of all employees with department name is "HR" and if the location is Mumbai

15. Change designation of all employees to senior programmer if they are working on name:"Project-1" for 4 hrs

16. Add list of hobbies in all employees document whose manager is Rajan or Revati

17. Add list of skillset in all employee documents who are working on project-4 for 3 hrs or on project-3 for 4 hrs

18. Add a new hobby as blogging at 3 position in hobbies array for all employess whose name starts with R or p and ends with j or s

19. Increase salary by 10000 for all employees who are working on project-2 or project-3 or project-1

Remove all employees working on project-1

```
iacsd0324> db.emp.updateMany(
... { "projects.name": "project-1" },
... { $pull: { projects: { name: "project-1" } } }
... )
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

21. Replace document of employee with name "Deepak to some new document

22. Change skill python to python 3.8 for all employees if python is there in the skillset

23. Add 2 skills MongoDb and Perl at the end of skillset array for all employees who are working at Pune location

24. Delete first hobby from hobby array for all employees who are working on project-1 or project-2

25. Delete last hobby from hobbies array for all employees who are working on project which is at 2 nd position in projects array for 4 hrs

```
iacsd0324> db.emp.updateMany(
... { "projects.1.Hrs": 4 },
... { $pop: { hobbies: 1 } }
... )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
}
iacsd0324>
```

26. Add 2 new projects at the end of array for all employees whose skillset contains Perl or python