

Create Employee Collection add 5 documents:

Example:

```
{empno: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:2}]}
```

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

```
Db.emp.update({desg:'CLERK'},{$set:{desg:' Administrative Officer'}},{multi:true})
```

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

```
Db.emp.update({desg:'analyst','project.name':'Project-1'},{$set:{'project.$hours':5}},{multi:true})
```

3. 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-2,hrs:4},{  
name:'Project-3,hrs:4}] } } }},{multi:true})
```

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

```
Db.emp.update({salary:{$gt:50000}},{ $set: {bonus:2000} }},{multi:true})
```

5. Add key bonus rs 1500 if salary > 30000 and salary <50000

```
Db.emp.update({salary:{$gt:30000,$lt:50000}},{ $set: {bonus:1500} }},{multi:true})
```

6. Add key bonus rs 1000 if salary <= 30000

```
Db.emp.update({salary:{$lte:30000}},{ $set: {bonus:1000} }},{multi:true})
```

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

```
Db.emp.update({name:'satish'},{$set:{'mgr.name':'Tushar','mgr.num':3333}},{multi:true})
```

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

```
Db.emp.update({'dept.dname':' purchase'},{$inc:{salary:15000}},{multi:true})
```

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

```
Db.emp.update({'project.name':'project-2'},{$inc:{'project.$hrs' :-2}},{multi:true})
```

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

```
{name:'project-2', hrs:4} project.name project.hrs
```

```
Db.emp.update({project:{$elemMatch: {name:'project-2', hrs:4}}},{ $pull: {'  
name:'project-2', hrs:4} }},{multi:true})
```

11. a. Change the salary of employees to 10000 only if their salary is < 10000
`db.emp.update({},{$max:{sal:10000}},{multi:true})`
 b. Add bonus as 10% of salary for all employees
`db.emp.update({},{$mul:{$sal,0.10}})`
12. Increase bonus of all employees by 500 if the salary is <2000 or if employee belongs to sales department
`sal:{$lt:2000}`
`'dept.dname':'sales'`
`$or:[{ sal: {$lt:2000}},{'dept.dname':'sales'}]`
`db.emp.update($or:[{`
`sal: {$lt:2000}},{'dept.dname':'sales'}],{$inc:{bonus:500}},{multi:true})`
13. Add 2 new project at index position 2 for all employees with designation analyst or salary is equal to either 30000 or 33000 or 35000
`db.emp.update($or:[{designation:'Analyst'},{sal:{$in:[30000,33000,35000]}}],`
`{ $push:{project:{$each:[{name:'Insurance',Hrs:3},{name:'Banking',Hrs:4}],$position:2}}`
`},{multi:true})`
14. Delete last project of all employees with department name is "HR" and if the location is Mumbai
`db.emp.update({'dept.dname':'HR','dept.dloc':'Mumbai'},{$pop:{project:1}},{multi:true})`
15. Change designation of all employees to senior programmer if they are working on name:"Project-1" for 4 hrs
`db.emp.update({project:{$elemMatch:{name:'project-1',Hrs:4}}},{Desg:' senior programmer'},{multi:true})`
16. Add list of hobbies in all employees document whose manager is Rajan or Revati
`db.emp.update({'mgr.name':{$in:['Rajan','Revati']},{ $set:{hobbies:['Trekking','Reading']}},{multi:true})`
17. Add list of skillset in all employee documents who are working on project-4 for 3 hrs or on project-3 for 4 hrs
`db.emp.update($or:[{project:{$elemMatch:{name:'project-4',Hrs:4}}},{project:{$elemMatch:{name:'project-3',Hrs:4}}}],{$set:{skillset:['python','MongoDB','oracle']}},{multi:true})`
18. Add a new hobby as blogging at 3 position in hobbies array for all employees whose name starts with R or P and ends with j or s
`db.emp.update({name:/^[RP].*[js]/},{ $push:{hobbies:{$each:['blogging'],$position:3}}},{multi:true})`
19. Increase salary by 1000 for all employees who are working on project-2 or project-3 or project-1
`db.emp.update({'project.name':{$in:['project-1','project-2','project-3']},{ $inc:{sal:1000}}},{multi:true})`
20. Decrease bonus by 1000 rs and increase salary by 1000rs for all employees whose department location is Mumbai

```
db.emp.update({'dept.loc':'Mumbai'},{$inc:{bonus:-1000},$inc:{sal:1000}},{multi:true})
```

21. Remove all employees working on project-1

```
db.emp.remove({'project.name':'project-1'})
```
22. Replace document of employee with name "Deepak" to some new document

```
db.emp.replaceOne({'name':'Deepak'},{'name':'Rajesh',dept:{dname:'HR',loc:'Pune'}},{multi:true})
```
23. Change skill python to python 3.8 for all employees if python is there in the skillset

```
db.emp.update({'skillSet':'python'},{'skillSet.$':'Python 3.8'},{multi:true})
```
24. Add 2 skills MongoDB and Perl at the end of skillset array for all employees who are working at Pune location

```
db.emp.update({'dept.dloc':'Pune'},{$push:{skillset:{each:['MongoDB','Perl']}}},{multi:true})
```
25. Delete first hobby from hobby array for all employees who are working on project-1 or project-2

```
db.emp.update({'project.name':{'$in':['project-1','project-2']}},{ $pop:{hobbies:-1}},{multi:true})
```
26. Delete last hobby from hobbies array for all employees who are working on project which is at 2nd position (1st index position) in projects array for 4 hrs

```
db.emp.update({'project.1.Hrs':4},{ $pop:{hobbies:1}},{multi:true})
```
27. Add 2 new projects at the end of array for all employees whose skillset contains Perl or python

```
db.emp.update({'skillset':{'$in':['Perl','Python']}},{$push:{project:{each:[{'name':'project-3','Hrs':4},{name:'project-4','Hrs':4}]}},{multi:true})
```
28. Change hrs to 6 for project-1 for all employees if they are working on the project-1 for < 6 hrs. otherwise keep the existing value.

```
db.emp.update({'project.name':'project-1'},{$min:{'project.$.Hrs':6}},{multi:true})
```