Arjun Bhardwaj

FS-V-A

21csu211   
NSDB Assignment

Create an Employee Collection add 5 documents: emono, ename, sal, dept (deptno, dname, dloc), Desg, mgr (name, num), project (name, hrs)

A computer screen shot of a program code

Description automatically generated

[

{

"emono":111,

"ename":"Deepali Vaidya",

"sal":40000,

"dept": {"deptno":12,"dname":"HR","dloc":"Mumbai"},

"desg":"Analyst",

"mrg":{"name":"Satish","num":111},

"project":[{"name":"Project-1","hrs":4},{"name":"Project-2","hrs":4}]

},

{

"emono":112,

"ename":"Arjun bhardwaj",

"sal":69000,

"dept": {"deptno":13,"dname":"CEO","dloc":"Moon"},

"desg":"President",

"mrg":{"name":"Barjun","num":211},

"project":[{"name":"Jakosta","hrs":14},{"name":"Cobra","hrs":2}]

},

{

"emono":113,

"ename":"John Doe",

"sal":45000,

"dept": {"deptno":14,"dname":"CFO","dloc":"Mars"},

"desg":"Prime Minister",

"mrg":{"name":"James","num":311},

"project":[{"name":"Razor","hrs":6},{"name":"Viper","hrs":9}]

},

{

"emono":114,

"ename":"Jane Doe",

"sal":50000,

"dept": {"deptno":15,"dname":"Janitor","dloc":"Space"},

"desg":"Cleaner",

"mrg":{"name":"Ramesh","num":411},

"project":[{"name":"Ground Floor","hrs":2},{"name":"First Floor","hrs":1}]

},

{

"emono":115,

"ename":"Kamaboko Gonpachiro",

"sal":55000,

"dept": {"deptno":16,"dname":"Staff","dloc":"SomeRoom"},

"desg":"Demon Slayer",

"mrg":{"name":"Some Blind Guy","num":511},

"project":[{"name":"Nazuko","hrs":100},{"name":"Swordmanship","hrs":500}]

}

]

A screen shot of a computer program

Description automatically generated

l. All Employee's with the desg as 'CLERK' are now called as (AO) Administrative Officers.

Update the Employee collection for this.

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Description automatically generated

db.employee.updateOne({desg:"CLERK"},{$set:{desg:"(AO) Administrative Officer"}})

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

A screen shot of a computer

Description automatically generated

db.employee.updateMany({desg:"Analyst",project:{$elemMatch:{name:"Project-1"}}},{$set:{"project.$.Hrs":5}})

3. Add 2 projects project-3 and project-4 for employee whose name starts with "Deep" with 2 hrs

A screen shot of a computer

Description automatically generated

db.employee.updateMany({ename:{$regex:/^Deep/i}},{$push:{project:{$each:[{name:"Project-3",Hrs:2},{name:"Project-4",Hrs:2}]}}})

4. Add bonus rs 2000 for all employees with salary > 50000 and 1500 if salary <50000 and >

30000 otherwise bonus will be 1000

A screen shot of a computer code

Description automatically generated

db.employee.updateMany({sal:{$gt:50000}},{$set:{bonus:2000}})

db.employee.updateMany({$and:[{sal:{$gt:30000}},{sal:{$lt:50000}}]},

{$set:{bonus:1500}})

db.employee.updateMany({sal:{$lt:30000}},{$set:{bonus:1000}})

5. Change manager name to Tushar for all employees whose manager is currently "satish"

And manager number to 3333

A screen shot of a computer program

Description automatically generated

db.employee.updateMany({"mgr.name":"Satish"},

{$set:{"mgr.name":"Tushar","mgr.num":3333}})

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

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Description automatically generated

db.employee.updateMany({"dept.dname":"Purchase"},{$inc:{sal:15000}})

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

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Description automatically generated

db.employee.updateMany({'project.name':'Project-2'},{$inc:{'project.$.Hrs':-2}})

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

hrs.

A screen shot of a computer code

Description automatically generated

db.Employee.deleteMany(

{"project.name":"project-2"},

{if :{"project.$.Hrs":4}})

9. Change the salarY of employees to 10000 only if their salarY is < 10000

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Description automatically generated

db.employee.updateMany({sal:{$lt:10000}},{$set:{sal:10000}})

10. Increase bonus of all employees by 500 if the bonus is <2000 or their salarY is <

20000 or if employee belong to sales department

A screen shot of a computer

Description automatically generated

db.employee.updateMany({$or:[{bonus:{$lt:2000}},{sal:{$lt:20000}},{'dept.dname':'Sales'}]},{$inc:{bonus:500}})

11. Add 2 new project at position 2 for all employees with designation analyst or salary is

equal to either 30000 or 33000 or 35000

A black screen with yellow numbers

Description automatically generated

db.employee.updateMany({$or:[{Desg:'Analyst'},{sal:{$in:[30000,33000,35000]}}]},{$push:{project:{$each:[{name:'warframe',Hrs:7},{name:'Destiny3',Hrs:9}],$position:2}}})

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

is Mumbai

A screen shot of a computer

Description automatically generated

db.employee.updateMany({'dept.dname':'HR','dept.dloc':'Mumbai'},{$pop:{'project':1}})

13. Change designation of all employees to senior programmer if they are working on

name:"Project-l " for 4 hrs

A screen shot of a computer

Description automatically generated

db.employee.updateMany({"project.name":"Project-1","project.hrs":4},{

$set:{Desg:"Senior programmer"}})

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

A screen shot of a computer program

Description automatically generated

db.Employee.updateMany(

{$or:

[{mgr:"Rajan"},

{mgr:"Revati"}]},

{$set:{hobbies:["gaming","chess"]}})

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

or on project-3 for 4 hrs

A screen shot of a computer program

Description automatically generated

db.Employee.updateMany(

{$or:

[{"project.name":"project-4" , "project.hrs":3},

{"project.name":"project-3" , "project.hrs":4}]},

{$set:{skillset:["skill1","skill2"]}})

\*16. Add a new hobby as blogging at 3 position in hobbies array for all employees whose

name staffs with R or p and ends with j or s

A screen shot of a computer code

Description automatically generated

db.employee.updateMany({"ename": { $regex: "^[Rp].\*[js]$" }},{$push:{"hobbies":{

$each:"blogging",$position:2}}})

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

or project-I

Decrease bonus by 1000 rs And increase salalY by 1000rs for all employees whose

depaltment location is Mumbai

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Description automatically generated

db.employee.updateMany({"project":{$in:["Project-1","Project-2","Project-3"]}},

{$inc:{sal:10000}})

db.employee.updateMany({"dept.loc":"Mumbai"},{$inc:{sal:100,bonus:-1000}})

18. Remove all employees working on project-I



db.Employee.deleteMany({ "project.name": "project-1" })

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

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Description automatically generated

db.Employee.replaceOne({ ename: "Deepali Vaidya" }, { ename: "Ezio Auditore", salary: 42000, desg: "Assassin" })

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

A screen shot of a computer

Description automatically generated

db.employee.updateMany({skill:"python"},{$set:{"skill.$":"python 3.8"}})

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

A screen shot of a computer code

Description automatically generated

db.employee.updateMany({"dept.dloc":"Pune"},

{$push:{skill:{$each:["Mongodb","Perl"]}}})

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

or project-2

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Description automatically generated

db.Employee.updateMany( { "project.name": { $in: ["project-1", "project-2"] } }, { $pop: { hobbies: -1 } })

\*23. Delete last hobby from hobbies array for all employees who are working on project

which is at 2nd position in projects array for 4 hrs

A screen shot of a computer

Description automatically generated

db.Employee.updateMany({ "project.1.Hrs": 4 }, { $pop: { hobbies: 1 } }).

24. Add 2 new projects at the end of an-ay for all employees whose skillset contains Perl

or python

A screen shot of a computer

Description automatically generated

db.Employee.updateMany({ $or:[ {skillset:"perl"},{skillset:"python"}]}, {$push:{project:{$each:[{name:"DarkSouls",Hrs:5},{name:"EldenRing",Hrs:50}]}}});

25. Change hrs to 6 for project-I for all employees if they working on the project-I for <

6 hrs. otherwise keep the existing value.

A screen shot of a computer

Description automatically generated

db.Employee.updateMany({ "project.name":"project-1","project.hrs":{$lt:6}}, {$set:{"project.$.hrs":6}});