

NoSQL Database ASSIGNMENT - 1

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Roll No: 21csu271

Class: FS-V-FA-2

DATA INSERTION CODE:

use your_database_name (nosql in my case)

```
db.employees.insertMany([  
  
  {  
  
    emono: 111,  
  
    ename: "Siddharth",  
  
    sal: 40000.00,  
  
    dept: { deptno: 12, dname: "Hr", dloc: "Mumbai" },  
  
    Desg: "Analyst",  
  
    Bonus: 7000.00,  
  
    mgr: { name: "Satish", num: 111 },  
  
    project: [  
  
      { name: "Project-1", Hrs: 4 },  
  
      { name: "Project-2", Hrs: 4 }  
  
    ]  
  
  },  
  
  {  
  
    emono: 112,  
  
    ename: "Ram",  
  
    sal: 104000.00,
```

```
dept: { deptno: 13, dname: "CS", dloc: "Mumbai" },
Desg: "Coder",
Bonus: 8000.00,
mgr: { name: "Rohan", num: 112 },
project: [
  { name: "Project-1", Hrs: 4 },
  { name: "Project-2", Hrs: 4 }
]
},
{
  emono: 113,
  ename: "Garvit",
  sal: 44000.00,
  Bonus: 7000.00,
  dept: { deptno: 13, dname: "Hr", dloc: "Mumbai" },
  Desg: " Analyst ",
  mgr: { name: " Satish", num: 111 },
  project: [
    { name: "Project-1", Hrs: 4 },
    { name: "Project-2", Hrs: 4 }
  ]
},
{
  emono: 114,
```

```
    ename: "Vishal",
sal: 74000.00,

    Bonus: 8000.00,

    dept: { deptno: 13, dname: "CS", dloc: "Mumbai" },

    Desg: "Coder",

    mgr: { name: " Rohan", num: 111 },

    project: [

        { name: "Project-1", Hrs: 4 },

        { name: "Project-2", Hrs: 4 }

    ]

},

{

    emono: 113,

    ename: "Bhavesh",

    sal: 94000.00,

    Bonus: 8000.00,

    dept: { deptno: 13, dname: "Hr", dloc: "Mumbai" },

    Desg: " Analyst ",

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

    project: [

        { name: "Project-1", Hrs: 4 },

        { name: "Project-2", Hrs: 4 }

    ]

},
```

])

ANSWERS:

1) db.Employee.updateMany(

{ "Desg": "CLERK" },

{ \$set: { "Desg": "AO" } }

);

2) db.Employee.updateMany(

{ "Desg": "Analyst", "project.name": "Project-1" },

{ set: { "project..Hrs": 5 } }

);

3) db.Employee.updateMany(

{ "ename": /^Deep/ }, // Find employees whose names start with "Deep"

{

\$push: {

"project": { \$each: [{ "name": "project-3", "Hrs": 2 }, { "name": "project-4", "Hrs": 2 }] }

}

}

);

4) db.Employee.updateMany(

{ "sal": { \$gt: 50000 } },

{ \$inc: { "bonus": 2000 } }

);

db.Employee.updateMany(

{ "sal": { /t : 50000,gt: 30000 } },

```
    { $inc: { "bonus": 1500 } }
```

```
);
```

```
db.Employee.updateMany(
```

```
    { "sal": { $lte: 30000 } },
```

```
    { $inc: { "bonus": 1000 } }
```

```
);
```

```
5)    db.Employee.updateMany(
```

```
    { "mgr.name": "Satish" },
```

```
    {
```

```
        $set: {
```

```
            "mgr.name": "Tushar",
```

```
            "mgr.num": 3333
```

```
        }
```

```
    }
```

```
);
```

```
6)    db.Employee.updateMany(
```

```
    { "dept.dname": "purchase department" },
```

```
    { $inc: { "sal": 15000 } }
```

```
);
```

```
7)    db.Employee.updateMany(
```

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

```
    { inc: { "project..Hrs": -2 } }
```

```
);
```

```
8)    db.Employee.updateMany(
```

```
{ "project.name": "project-2", "project.Hrs": 4 },  
  
{ $pull: { "project": { "name": "project-2" } } }  
  
);
```

```
9) db.Employee.updateMany(  
  
  { "sal": { $lt: 10000 } },  
  
  { $set: { "sal": 10000 } }  
  
);
```

```
10) db.Employee.updateMany(  
  
  {  
  
    $or: [  
  
      { "bonus": { $lt: 2000 } },  
  
      { "sal": { $lt: 20000 } },  
  
      { "dept.dname": "sales department" }  
  
    ]  
  
  },  
  
  { $inc: { "bonus": 500 } }  
  
);
```

```
11) db.Employee.updateMany(  
  
  {  
  
    $or: [  
  
      { "Desg": "Analyst" },  
  
      { "sal": { $in: [30000, 33000, 35000] } }  
  
    ]  
  
  },
```

```

{
  $push: {
    "project": {
      $each: [
        { "name": "New Project 1", "Hrs": 0 },
        { "name": "New Project 2", "Hrs": 0 }
      ],
      $position: 2
    }
  }
}
);

```

12) db.Employee.updateMany(

```

{
  "dept.dname": "HR",
  "dept.dloc": "Mumbai"
},
{ $pop: { "project": 1 } }
);

```

13) db.Employee.updateMany(

```

{ "project.name": "Project-1", "project.Hrs": 4 },
{ $set: { "Desg": "senior programmer" } }
);

```

14) db.Employee.updateMany(

```
{ "mgr.name": { $in: ["Rajan", "Revati"] } },  
{ $set: { "hobbies": ["Hobby1", "Hobby2"] } }  
);
```

```
15) db.Employee.updateMany(  
  {  
    $or: [  
      { "project.name": "project-4", "project.Hrs": 3 },  
      { "project.name": "project-3", "project.Hrs": 4 }  
    ]  
  },  
  { $set: { "skillset": ["Skill1", "Skill2"] } }  
);
```

```
16) db.Employee.updateMany(  
  {  
    "ename": { regex : "[Rp]. ? [js]" }  
  },  
  { push: { "hobbies": { each: ["blogging"], $position: 2 } } }  
);
```

```
17) db.Employee.updateMany(  
  { "project.name": { $in: ["project-1", "project-2", "project-3"] } },  
  { $inc: { "sal": 10000 } }  
);
```

```
db.Employee.updateMany(  
  {
```



```
{ "dept.dloc": "Mumbai" },  
  
{ $inc: { "bonus": -1000, "sal": 1000 } }  
  
);  
  
18) db.Employee.updateMany(  
  
  { "project.name": "project-1" },  
  
  { $pull: { "project": { "name": "project-1" } } }  
  
);  
  
19) db.Employee.replaceOne(  
  
  { "ename": "Deepak" },  
  
  {  
  
    "emono": 123,  
  
    "ename": "New Employee",  
  
    "sal": 50000,  
  
    "dept": {  
  
      "deptno": 10,  
  
      "dname": "IT",  
  
      "dloc": "Bangalore"  
  
    },  
  
    "Desg": "Developer",  
  
    "mgr": {  
  
      "name": "Rajan",  
  
      "num": 456  
  
    },  
  
    "project": [
```

```
{  
  "name": "Project-5",  
  "Hrs": 6  
}  
]  
}  
);
```

```
20) db.Employee.updateMany(  
  { "skillset": "python" },  
  { set: { "skillset": "python 3.8" } }  
);
```

```
21) db.Employee.updateMany(  
  { "dept.dloc": "Pune" },  
  { push: { "skillset": { each: ["MongoDB", "Perl"] } } }  
);
```

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

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

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

```
{ "skillset": { $in: ["Perl", "python"] } },  
  
{  
  $push: {  
    "project": { $each: [{ "name": "New Project 1", "Hrs": 0 }, { "name": "New Project 2", "Hrs": 0  
    }] }  
  }  
}  
  
);
```

25) db.Employee.updateMany(

```
{ "project.name": "project-1", "project.Hrs": { $lt: 6 } },  
  
{ set: { "project..Hrs": 6 } }  
  
);
```