

## NoSQL Database ASSIGNMENT - 1

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**Class:** FS-V-FA

**Sem:** 5th

### DATA INSERTION CODE:

use your\_database\_name (nosql in my case)

```
db.employees.insertMany([  
  
  {  
  
    emono: 111,  
  
    ename: "Milit Chawla",  
  
    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: "Aditya Jha",
```

```
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: "Shivam",

  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: "Arjun",  
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: "Sanidhya",  
  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": { $gt: 50000 } },  
  { $inc: { "bonus": 2000 } }  
);
```

```
{ "sal": { $lt : 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(

```

```

{ "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 } }
);

```