## NSDB ASSINGMENT - 1

Name: Gaurav Raj Roll No: 21CSU031 Class: FS-V-FA Semester: 5<sup>th</sup>

## **Database Name: employees**

```
"emono": 111,
"ename": "Deepali Vaidya",
"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": "Prateek Kuhad",
"sal": 70000.00,
"dept": { "deptno": 13, "dname": "CS", "dloc": "Mumbai" },
"Desg": "Scientist",
"Bonus": 9000.00,
"mgr": { "name": "Aryan", "num": 112 },
"project": [
  { "name": "Project-1", "Hrs": 4 },
   { "name": "Project-2", "Hrs": 4 }
"emono": 113,
"ename": "Vivek Kaul",
"sal": 44000.00,
"Bonus": 7000.00,
"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 }
```

```
"emono": 114,
"ename": "Vaibhav Sharma",
"sal": 87000.00,
"Bonus": 9000.00,
"dept": { "deptno": 13, "dname": "CS", "dloc": "Mumbai" },
"Desg": "Scientist",
"mgr": { "name": " Aryan", "num": 112 },
"project": [
 { "name": "Project-1", "Hrs": 4 },
  { "name": "Project-2", "Hrs": 4 }
"emono": 115,
"ename": "Prabh Singh",
"sal": 66000.00,
"Bonus": 9000.00,
"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 }
```

```
Insdb> db.employees.updateMany(
[... {'Desg': 'CLERK'},
[... {$set: {'Desg': 'AO'}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'Desg': 'Analyst', 'project.name': 'Project-1'},
[... {$set: {'project.$.Hrs': 5}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
```

```
Insdb> db.employees.updateMany(
[... {'ename': /^Deep/},
[... { $push: {'project': {$each: [
[... {'name': 'Project-3', 'Hrs': 2},
[... {'name': 'Project-4', 'Hrs': 2}]
[... ]}});
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
```

4.

```
[nsdb> db.employees.updateMany(
[... {'sal': {$gt: 50000}},
[... {$inc: {'bonus': 2000}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 3,
    modifiedCount: 3,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'sal': {$1t: 50000, $gt: 30000}},
[... {$inc: {'bonus': 1500}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 2,
    modifiedCount: 2,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'sal': {$lte: 30000}},
[... {$inc: {'bonus': 1000}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'mgr.name': 'Satish'},
[... {$set: {'mgr.name': 'Tushar', 'mgr.num': 3333}}
[... );
    {
        acknowledged: true,
        insertedId: null,
        matchedCount: 1,
        upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'dept.dname': 'purschase department'},
[... {$inc: {'sal': 15000}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.name': 'Project-2'},
[... {$inc: {'project.$.Hrs': -2}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
}
```

```
Insdb> db.employees.updateMany(
[... {'project.name': 'Project-2', 'project.Hrs': 4},
[... {$pull: {'project': {'name': 'Project-2'}}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 4,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'sal': {$1t: 10000}},
[... {$set: {'sal': 10000}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {$or: [{'Bonus': {$1t: 2000}},
[... {'sal': {$1t: 20000}},
[... {'dept.dname': 'sales department'}]},
[... {$inc: {'bonus': 500}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
Insdb> db.employees.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}});
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'dept.dname': 'HR', 'dept.dloc': 'Mumbai'},
[... {$pop: {'Project': 1}}
[... );
    {
        acknowledged: true,
        insertedId: null,
        matchedCount: 0,
        upsertedCount: 0,
        upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.name': 'Project-1', 'project.Hrs': 4},
[... {$set: {'Desg': 'senior programmer'}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 4,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {$or: [{'mgr.name': 'Rajan'}, {'mgr.name': 'Revati'}]},
[... {$set: {'hobbies': ['Singing', 'Dancing']}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {$or: [{'project.name': 'Project-4', 'project.Hrs': 3},
[... {'project.name': 'Project-3', 'project.Hrs': 4}]},
[... {$set: {'skillset': ['Java', 'Python']}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0,
}
```

```
[nsdb> db.employees.updateMany(
[... {'ename': {$regex: '^[Rp].*[js]$'}},
[... {$push: {'hobbies': {$each: ['blogging'], $position: 2}}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.name': {$in: ['Project-1', 'Project-2', 'Project-3']}},
[... {$inc: {'sal': 10000}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'dept.dloc': 'Mumbai'},
[... {$inc: {'bonus': -1000, 'sal': 1000}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.name': 'Project-1'},
[... {$pull: {'project': {'name': 'Project-1'}}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
}
```

```
19.
   [nsdb> db.employees.replaceOne(
   [... {'ename': 'Deepak'},
   ... {'emono': 116,
   ... 'ename': 'Shivansh',
   ... 'sal': 60000,
   ... 'dept': {'deptno': 14, 'dname': 'Finance', 'dloc': 'Delhi'},
   ... 'Desg': 'Manager',
   ... 'mgr': {'name': 'Ravi', 'num': 113},
   ... 'project': [{'name': 'Project-5', 'Hrs': 6}]}
   ...);
   {
     acknowledged: true,
     insertedId: null,
     matchedCount: 0,
     modifiedCount: 0,
     upsertedCount: 0
```

```
[nsdb> db.employees.updateMany(
[... {'skillset': 'python'},
[... {$set: {'skillset.$': 'python 3.8'}}
[... );
    {
        acknowledged: true,
        insertedId: null,
        matchedCount: 0,
        upsertedCount: 0,
        upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'dept.dloc': 'Pune'},
[... {$push: {'skillset': {$each: ['MongoDB','Perl']}}}]
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.name': {$in: ['Project-1', 'Project-2']}},
[... {$pop: {'hobbies': -1}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.1.Hrs': 4},
[... {$pop: {'hobbies': 1}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    upsertedCount: 0,
}
```

```
[nsdb> db.employees.updateMany(
[... {'skillset': {$in: ['Perl', 'Python']}},
[... {$push: {'project': {$each: [
[... {'name': 'Project-6', 'Hrs': 2},
[... {'name': 'Project-7', 'Hrs': 5}]}}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

```
[nsdb> db.employees.updateMany(
[... {'project.name': 'Project-1', 'project.Hrs': {$1t: 6}},
[... {$set: {'project.$.Hrs': 6}}
[... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
```