NSDB Assignment 1

▼ Insert Commands

```
db.Employee.insertMany([
  {
    "empno": 1,
    "ename": "Deepali Vaidya",
    "salary": 40000,
    "dept": {
      "deptno": 12,
      "dname": "HR",
      "dloc": "Mumbai"
    },
    "designation": "Analyst",
    "manager": {
      "name": "satish",
      "num": 111
    },
    "project": [
      {
        "name": "Lambda",
        "hrs": 4
      },
      {
        "name": "alpha",
        "hrs": 8
      }
    ]
  },
  {
    "empno": 2,
    "ename": "John Smith",
    "salary": 55000,
    "dept": {
      "deptno": 10,
      "dname": "Engineering",
      "dloc": "San Francisco"
    },
    "designation": "Software Engineer",
    "manager": {
      "name": "Sarah",
      "num": 112
    },
    "project": [
      {
        "name": "Beta",
        "hrs": 6
      },
      {
        "name": "Gamma",
        "hrs": 10
      }
    ]
  },
  {
    "empno": 3,
    "ename": "Alice Johnson",
    "salary": 60000,
```

```
      "dept": {
        "deptno": 20,
        "dname": "Marketing",
        "dloc": "New York"
      },
      "designation": "Marketing Specialist",
      "manager": {
        "name": "Michael",
        "num": 113
      },
      "project": [
        {
          "name": "Delta",
          "hrs": 5
        },
        {
          "name": "Epsilon",
          "hrs": 7
        }
      ]
    },
    {
      "empno": 4,
      "ename": "Robert Brown",
      "salary": 70000,
      "dept": {
        "deptno": 30,
        "dname": "Finance",
        "dloc": "Chicago"
      },
      "designation": "Financial Analyst",
      "manager": {
        "name": "Emily",
        "num": 114
      },
      "project": [
        {
          "name": "Zeta",
          "hrs": 8
        },
        {
          "name": "Eta",
          "hrs": 9
        }
      ]
    },
    {
      "empno": 5,
      "ename": "Linda Davis",
      "salary": 48000,
      "dept": {
        "deptno": 40,
        "dname": "Operations",
        "dloc": "Los Angeles"
      },
      "designation": "Operations Manager",
      "manager": {
        "name": "David",
        "num": 115
      },
      "project": [
        {
          "name": "Theta",
          "hrs": 3
        },
        {
```

```
        "name": "Iota",
        "hrs": 6
      }
    ]
  }
]);
{ acknowledged: true,
  insertedIds:
   { '0': ObjectId("64e5a6bfe1b0c8ea52f33e16"),
     '1': ObjectId("64e5a6bfe1b0c8ea52f33e17"),
     '2': ObjectId("64e5a6bfe1b0c8ea52f33e18"),
     '3': ObjectId("64e5a6bfe1b0c8ea52f33e19"),
     '4': ObjectId("64e5a6bfe1b0c8ea52f33e1a") } }
```

Answers
▼ 1

```
db.Employee.updateMany(
  { "designation": "CLERK" },
  { $set: { "designation": "AO" } }
)
```

▼ 2

```
db.Employee.updateMany(
  { "Designation": "Analyst", "project.name": "Project-1" },
  { $set: { "project.$.Hrs": 5 } }
```

▼ 3

```
3)  db.Employee.updateMany(
  { "ename": /^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": { $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

```
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

```
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" },
  {
    "empno": 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 } }
);
```