

use manu

```
db.collection.insertMany([
  {
    _id: 1,
    name: "Deepika",
    grades: [95, 92, 90]
  },
  {
    _id: 2,
    name: "Ruthvi",
    grades: [98, 100, 102]
  },
  {
    _id: 3,
    name: "Kavana",
    grades: [95, 110, 100]
  })
```

```
< {
  acknowledged: true,
  insertedIds: {
    '0': 1,
    '1': 2,
    '2': 3
  }
}
```


```
db.collection.updateOne(
  { name: "Ruthvi" },
  { $set: { "grades.$[elem]": 101 } },
  { arrayFilters: [ { "elem": 98 } ] })
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```

db.collection.updateMany(
  {},
  { $set: { "grades.$[elem]": 200 } },
  { arrayFilters: [ { "elem": { $gte: 100 } } ] }
)

```



```

< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 2,
  upsertedCount: 0
}

```

```

db.collection2.insertMany([
  {
    _id: 1,
    name: "Babu Kamrath",
    grades: [
      { grade: 80, mean: 75, std: 6 },
      { grade: 85, mean: 90, std: 4 },
      { grade: 85, mean: 85, std: 6 }
    ]
  },
  {
    _id: 2,
    name: "Abhinandan",
    grades: [
      { grade: 90, mean: 75, std: 6 },
      { grade: 87, mean: 90, std: 3 },
      { grade: 85, mean: 85, std: 4 }
    ]
  }
])

```

```
< {
  acknowledged: true,
  insertedIds: {
    '0': 1,
    '1': 2
  }
}
```

```
db.collection2.updateOne(
  { name: "Abhinandan" },
  { $inc: { "grades.$[elem].std": -1 } },
  {
    arrayFilters: [
      { "elem.grade": { $gte: 90 }, "elem.std": { $gte: 5 } }
    ] })
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
db.collection.updateMany(
  {},
  { $set: { "grades.$[elem].mean": 100 } },
  {
    arrayFilters: [
      { "elem.grade": { $gte: 87 } }
    ] })
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```

db.collection3.insertMany([
  {
    _id: 1,
    name: "Kavana",
    scores: [1, 5, 17]
  },
  {
    _id: 2,
    name: "Varsha",
    scores: [8, 17, 18]
  },
  {
    _id: 3,
    name: "Shifa Banu",
    scores: [15, 11, 8]
  }
])

```

```

{
  acknowledged: true,
  insertedIds: {
    '0': 1,
    '1': 2,
    '2': 3
  }
}

```

```

db.collection3.updateOne(
  { name: "Shifa Banu" },
  { $set: { "scores.$[elem]": 100 } },
  {
    arrayFilters: [
      { "elem": { $gte: 10, $lte: 15 } }
    ]
  }
)

```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
db.collection3.updateMany(
  {},
  { $set: { "scores.$[elem]": 100 } },
  {
    arrayFilters: [
      { "elem": { $gte: 10, $lte: 15 } }
    ]
  })
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 0,
  upsertedCount: 0
}
```

```
db.collection4.insertMany([
  {
    _id: 1,
    firstName: "Yaswanth",
    lastName: "Gowda",
    email: "Yaswanthg@abc.com",
    salary: 50000,
    skills: ["Angular", "React", "MongoDB", "HTML", "CSS"]
  },
  {
    _id: 2,
    firstName: "Harish",
    lastName: "Babu",
    email: "Harish.b@abc.com",
```

```

    salary: 8000,
    skills: ["Python", "Django", "HTML", "CSS", "MongoDB"]
  },
  {
    _id: 3,
    firstName: "Manjunath",
    lastName: "Hiremath",
    email: "Manjunath@abc.com",
    salary: 7500,
    skills: ["HTML", "CSS", "JAVASCRIPTS", "HTML", "CSS", "MongoDB"]
  },
  {
    _id: 4,
    firstName: "Rajiv",
    lastName: "p",
    email: "Rajiv@abc.com",
    salary: 7000,
    skills: ["ASP.NET", "MSSQLSERVER", "C#", "HTML", "CSS"]])

```

```

{
  acknowledged: true,
  insertedIds: {
    '0': 1,
    '1': 2,
    '2': 3,
    '3': 4
  }
}

```

```

db.collection4.updateOne(
  { firstName: "Rajiv" },
  { $set: { "skills.$[elem]": "DEVOPS" } },
  {
    arrayFilters: [
      { "elem": "HTML" }
    ]
  })

```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
db.collection4.updateMany(
  {},
  { $set: { "skills.$[elem]": "DOCKER" } },
  {
    arrayFilters: [
      { "elem": "MongoDB" }
    ]
  })
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 3,
  upsertedCount: 0
}
```