

Tazhibayev Sultanbay

SE-2326

Assignment 3.2

```
▶ {
  _id: 1
  firstName: "Nariman"
  lastName: "Toktasynov"
  email: "madiyar.toktasyn@abc.com"
  salary: "5000"
  skills: Array (3)
  location: "Aktau"
}

> db.employees.updateOne(
  { _id: 1 },
  { $set: { firstName: "Nariman", location: "Aktau" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

1) Update an id=1, firstName field in a single document in employees collection to “Nariman” and add the location field as “Aktau”.

```
> db.employees.updateOne(
  { firstName: "Elaman" },
  { $inc: { salary: 500 } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

2)

Increase the value of the salary field for firstName: "Elaman" by 500



_id: 2

firstName: "Elaman"

lastName: "Turganbay"

email: "elaman.turganbay@abc.com"

salary: 8500

▸ **skills:** Array (2)



```
_id: 2
firstName: "Elaman"
lastName: "T"
email: "elaman.t@abc.com"
salary: 8500
▶ skills: Array (2)
```

```
> db.employees.updateOne(
  { _id: 2 },
  { $set: { lastName: "T", email: "elaman.t@abc.com" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 0,
  upsertedCount: 0
}
```

3) Updates email and lastName fields for id=2 as lastName = Turganbay, [email=elaman.turganbay@abc.com](mailto:elaman.turganbay@abc.com)

```
> db.employees.updateOne(
  { _id: 5 },
  { $set: { skills: ["Sales Tax"] } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

4)

Overwrite array elements for skills of id=5 as "Sales Tax".



```
_id: 5
firstName: "Katya"
lastName: "D"
email: "katya.d@abc.com"
salary: "4500"
▼ skills: Array (1)
  0: "Sales Tax"
```

```
> db.employees.updateOne(
  { _id: 5 },
  { $set: { department: { name: "Finance", location: "Astana" } } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

5) Add department with name= 'Finance', location= 'Astana' information to id=5 and update document.



```
_id: 5
firstName: "Katya"
lastName: "D"
email: "katya.d@abc.com"
salary: "4500"
▼ skills: Array (1)
  0: "Sales Tax"
▼ department: Object
  name: "Finance"
  location: "Astana"
```

```
> db.employees.updateMany(
  { skills: "Marketing" },
  { $set: { "skills.$": "Public Speaking" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
```

6) Update "Marketing" to "Public Speaking" in the skills array field to all the documents.

```
firstName : AKHMET  
lastName : "J"  
email : "akhmet.j@abc.com"  
salary : "7000"  
▼ skills : Array (3)  
  0: "Mac"  
  1: "Public Speaking"  
  2: "Product Design"
```

```
> db.employees.updateOne(  
  { _id: 3 },  
  { $addToSet: { skills: "Sports" } }  
)  
< {  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

Add "Sports" element to skills array where id=3.

7)



```
_id: 3
firstName: "Madina"
lastName: "Bolat"
email: "madinab@abc.com"
salary: "7500"
▼ skills: Array (3)
  0: "Sales"
  1: "Public Speaking"
  2: "Sports"
```

```
> db.employees.updateMany(
  {},
  { $addToSet: { skills: { $each: ["Sports", "Acting"] } } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 6,
  modifiedCount: 6,
  upsertedCount: 0
}
```

8)

Add "Sports" and "Acting" to all skills arrays.

```
0: "Mac"
1: "Public Speaking"
2: "Product Design"
3: "Sports"
4: "Acting"
```

```
> db.employees.updateMany(
  { skills: { $ne: "GST" } },
  { $addToSet: { skills: "GST" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 6,
  modifiedCount: 6,
  upsertedCount: 0
}
```

9)

Add "GST" to all skills arrays if not exist.

```
_id: 6
firstName : "Amina"
lastName : "M"
email : "amina.m@abc.com"
salary : "7000"
▼ skills : Array (5)
  0: "Public Speaking"
  1: "Tax"
  2: "Sports"
  3: "Acting"
  4: "GST"
```

```
> db.employees.updateMany(
  {},
  { $pop: { skills: -1 } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 6,
  modifiedCount: 6,
  upsertedCount: 0
}
```

Remove the first element of all skills arrays.

```
_id: 6
firstName : "Amina"
lastName : "M"
email : "amina.m@abc.com"
salary : "7000"
▼ skills : Array (4)
    0: "Tax"
    1: "Sports"
    2: "Acting"
    3: "GST"
```

11) Delete all documents from the employee's collection where salary=7000.

```
> db.employees.deleteMany({ salary: 7000 })  
< {  
  acknowledged: true,  
  deletedCount: 2  
}
```

```
  _id: 4  
  firstName: "Akhmet"  
  lastName: "J"  
  email: "akhmet.j@abc.com"  
  salary: "7000"  
  ▶ skills: Array (5)
```



```
  _id: 5  
  firstName: "Katya"  
  lastName: "D"  
  email: "katya.d@abc.com"  
  salary: "4500"  
  ▶ skills: Array (3)  
  ▶ department: Object
```

```
  _id: 6  
  firstName: "Amina"  
  lastName: "M"  
  email: "amina.m@abc.com"  
  salary: "7000"  
  ▼ skills: Array (4)
```




```
_id: 2
firstName: "Elaman"
lastName: "Turganbay"
email: "elaman.turganbay@abc.com"
salary: 8500
▶ skills: Array (4)
```

```
_id: 3
firstName: "Madina"
lastName: "Bolot"
email: "madinab@abc.com"
salary: 7500
▶ skills: Array (4)
```

```
_id: 5
firstName: "Katya"
lastName: "D"
email: "katya.d@abc.com"
salary: 4500
▶ skills: Array (3)
▶ department: Object
```

```
skills: Array (3)
location: "Aktau"
```

```
_id: 2
firstName: "Elaman"
lastName: "Turganbay"
email: "elaman.turganbay@abc.com"
salary: 8500
▶ skills: Array (4)
```

```
_id: 3
firstName: "Madina"
lastName: "Bolot"
email: "madinab@abc.com"
salary: 7500
▶ skills: Array (4)
```

```
_id: 5
```

Delete all documents where salary is less than 7000.

```
db.employees.deleteMany({ salary: { $lt: 7000 } })

{
  acknowledged: true,
  deletedCount: 2
}
```

Documents 6 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain

Reset

Find

Options

ADD DATA

EXPORT DATA

UPDATE

DELETE

25

1 - 2 of 2

< >

≡

{ }

```
_id: 2
firstName: "Elaman"
lastName: "Turganbay"
email: "elaman.turganbay@abc.com"
salary: 8500
skills: Array (4)
```

```
_id: 3
firstName: "Madina"
lastName: "Bolot"
email: "madinab@abc.com"
salary: 7500
skills: Array (4)
```