

[Practical-3]

MongoDB CRUD Operations [Update | Remove]

1. Update all names having "pankaj" to "Pankaj" using the update() method.
2. Update the age of Pankaj Sharma from 24 to 30 using save()method.
3. Add an address field with hno, city, pincode and state to all documents.
4. Modify all the averageScore field to Score.
5. Remove all the state field from the address field
6. Remove the first student that belong to sec-D
7. Remove all the students whose age is greater than 25.

Instructions:

- Perform all the above activities.
- attach the screenshot of the MongoDB GUI for the activities required (Activity-1,3,4,5).
- Student.json file is attached

Implementation:

1.

```
> db.assign.update({name:"pankaj"},{$set:{name:"Pankaj"}},{multi:true})
```

```
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
```

2.

```
> db.assign.save({"_id" : ObjectId("60133b9b3953c9082089c9d8"),"name" : "Pankaj", "lastName" :  
"sharma", "age" : 30, "averageScore" : 3.4, "id" : 19, "sec" : "D", "gender" : "male"})
```

```
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

3.

```
> db.assign.updateMany({},{$set : {address: {hno:null,city:null,pincode:null,state:null}}})
```

```
{ "acknowledged" : true, "matchedCount" : 20, "modifiedCount" : 20 }
```

4.

```
> db.assign.updateMany({},{$rename:{"averageScore":"Score"}})
```

```
{ "acknowledged" : true, "matchedCount" : 20, "modifiedCount" : 20 }
```

5.

```
> db.assign.updateMany({},{$unset : {"address.state":null}})
```

```
{ "acknowledged" : true, "matchedCount" : 20, "modifiedCount" : 20 }
```

6.

```
> db.assign.deleteOne({sec:"D"})
```

```
{ "acknowledged" : true, "deletedCount" : 1 }
```

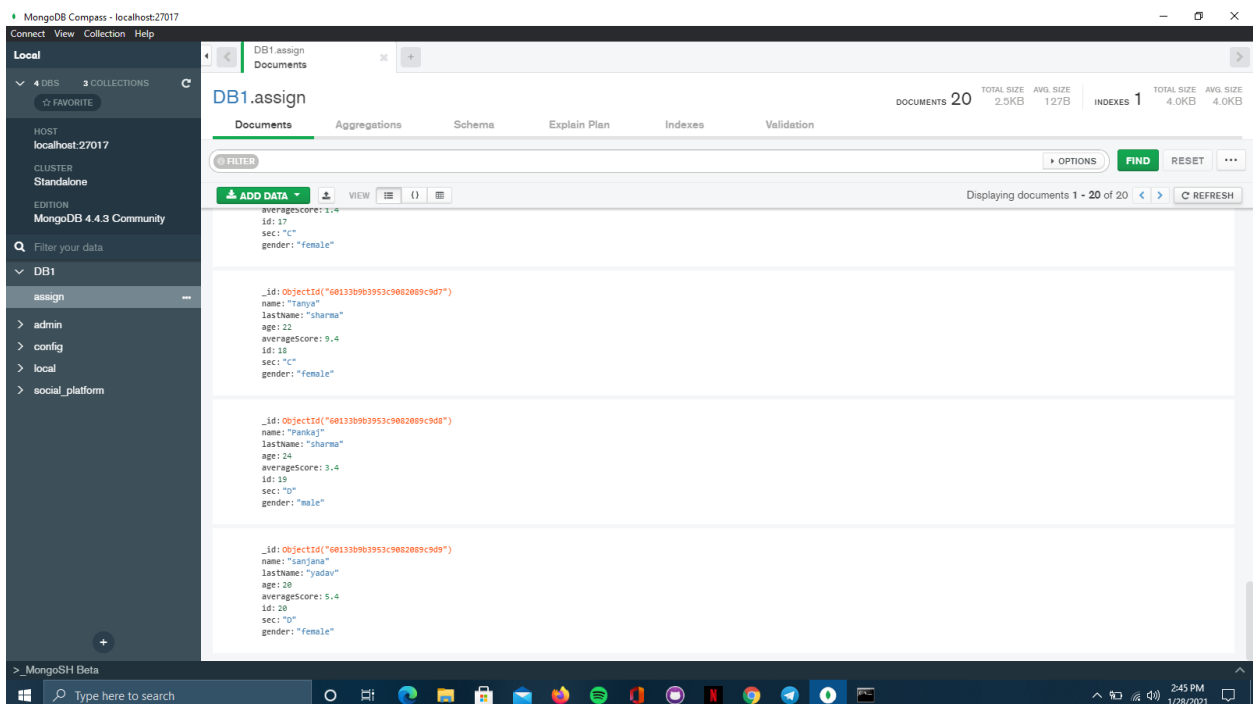
7.

```
> db.assign.remove({age:{$gt:25}})
```

```
WriteResult({ "nRemoved" : 3 })
```

Screenshots:

1.



3.

MongoDB Compass - localhost:27017

Local

DBS: 4 COLLECTIONS: 3 FAVORITE

HOST: localhost:27017

CLUSTER: Standalone

EDITION: MongoDB 4.4.3 Community

Filter your data

DB1

assign

admin

config

local

social_platform

DB1.assign Documents

DOCUMENTS 20 TOTAL SIZE 2.5KB AVG SIZE 127B INDEXES 1 TOTAL SIZE 4.0KB AVG SIZE 4.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

0 FILTER "name": "Pankaj";

ADD DATA VIEW

Displaying documents 1 - 20 of 20

sec: "c"
gender: "female"
address: Object

_id: ObjectId("6813309b3953c902089c9d7")
name: "Tanya"
lastname: "sharma"
age: 22
averageScore: 9.4
id: 18
sec: "c"
gender: "female"
address: Object
hno: null
city: null
pincode: null
state: null

_id: ObjectId("6813309b3953c902089c9d8")
name: "Pankaj"
lastname: "sharma"
age: 30
averageScore: 3.4
id: 19
sec: "g"
gender: "male"
address: Object

_id: ObjectId("6813309b3953c902089c9d9")
name: "sanjana"
lastname: "yadav"
age: 20

4.

MongoDB Compass - localhost:27017

Local

DBS: 4 COLLECTIONS: 3 FAVORITE

HOST: localhost:27017

CLUSTER: Standalone

EDITION: MongoDB 4.4.3 Community

Filter your data

DB1

assign

admin

config

local

social_platform

DB1.assign Documents

DOCUMENTS 20 TOTAL SIZE 2.5KB AVG SIZE 127B INDEXES 1 TOTAL SIZE 36.0KB AVG SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

0 FILTER

ADD DATA VIEW

Displaying documents 1 - 17 of 17

_id: ObjectId("681345213953c902089c9da")
name: "priya"
lastname: "gupta"
age: 17
id: 1
sec: "a"
gender: "female"
Score: 8.4

_id: ObjectId("681345213953c902089c9db")
name: "shyam"
lastname: "rana"
age: 17
id: 2
sec: "g"
gender: "male"
Score: 5.4

_id: ObjectId("681345213953c902089c9dc")
name: "kanal"
lastname: "sharma"
age: 11
id: 3
sec: "a"
gender: "male"
Score: 6.4

_id: ObjectId("681345213953c902089c9dd")
name: "sachin"
lastname: "yadav"
age: 19

5.

