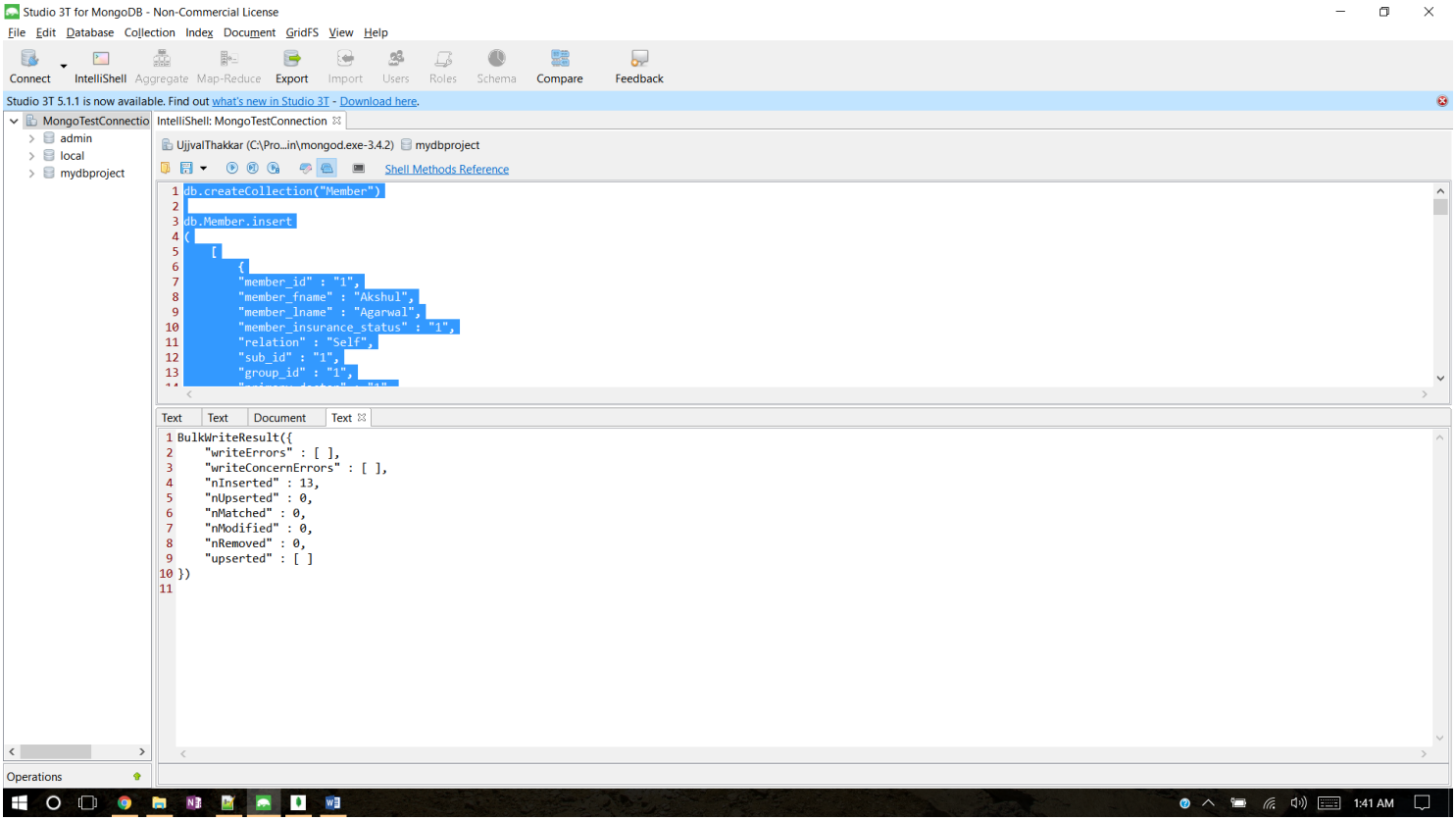
Creating Collection

```
db.createCollection("Member")
db.Member.insert
(
[
{
        "member_id" : "1",
        "member_fname" : "Akshul",
        "member_lname" : "Agarwal",
        "member_insurance_status" : "1",
        "relation" : "Self",
        "sub_id" : "1",
        "group_id" : "1",
        "primary_doctor" : "1",
        count : NumberInt(0)
},
{
  "member_id" : "2",
  "member_fname" : "Gaurang",
        "member_lname" : "Panchal",
        "member_insurance_status" : "1",
        "relation" : "Group Member",
        "sub_id" : "1",
        "group_id" : "1",
        "primary_doctor" : "1",
        count : NumberInt(0)
},
{
        "member_id" : "3",
        "member_fname" : "Ujjval",
        "member_lname" : "Thakkar",
        "member_insurance_status" : "1",
        "relation" : "Group member",
         "sub_id" : "1",
         "group_id" : "1",
         "primary_doctor" : "2",
         count : NumberInt(0)
},
{
        "member_id" : "4",
"member_fname" : "John",
"member_lname" : "Doe",
"member_insurance_status" : "1",
"relation" : "Group member",
"sub_id" : "1",
"group_id" : "1",
```

```
"primary_doctor" : "2",
count : NumberInt(0)
},
{
"member_id" : "5",
"member_fname" : "Peter",
        "member_lname" : "Samson",
        "member_insurance_status" : "1",
        "relation" : "Self",
        "sub_id" : "2",
        "group_id" : "2",
        "primary_doctor" : "3",
        count : NumberInt(0)
},
{
        "member_id" : "6",
        "member_fname" : "Harry",
        "member_lname" : "Potter",
        "member_insurance_status" : "1",
        "relation" : "Group member",
        "sub_id" : "2",
        "group_id" : "2",
        "primary_doctor" : "3",
        count : NumberInt(0)
},
{
        "member_id" : "7",
        "member_fname" : "Charles",
        "member_lname" : "Rhodes",
        "member_insurance_status" : "1",
        "relation" : "Group member",
        "sub_id" : "2",
        "group_id" : "2",
        "primary_doctor" : "4",
        count : NumberInt(0)
},
{
        "member_id" : "8",
        "member_fname" : "Nick",
        "member_lname" : "Halden",
        "member_insurance_status" : "1",
        "relation" : "Group member",
        "sub_id" : "2",
        "group_id" : "2",
        "primary_doctor" : "4",
        count : NumberInt(0)
},
```

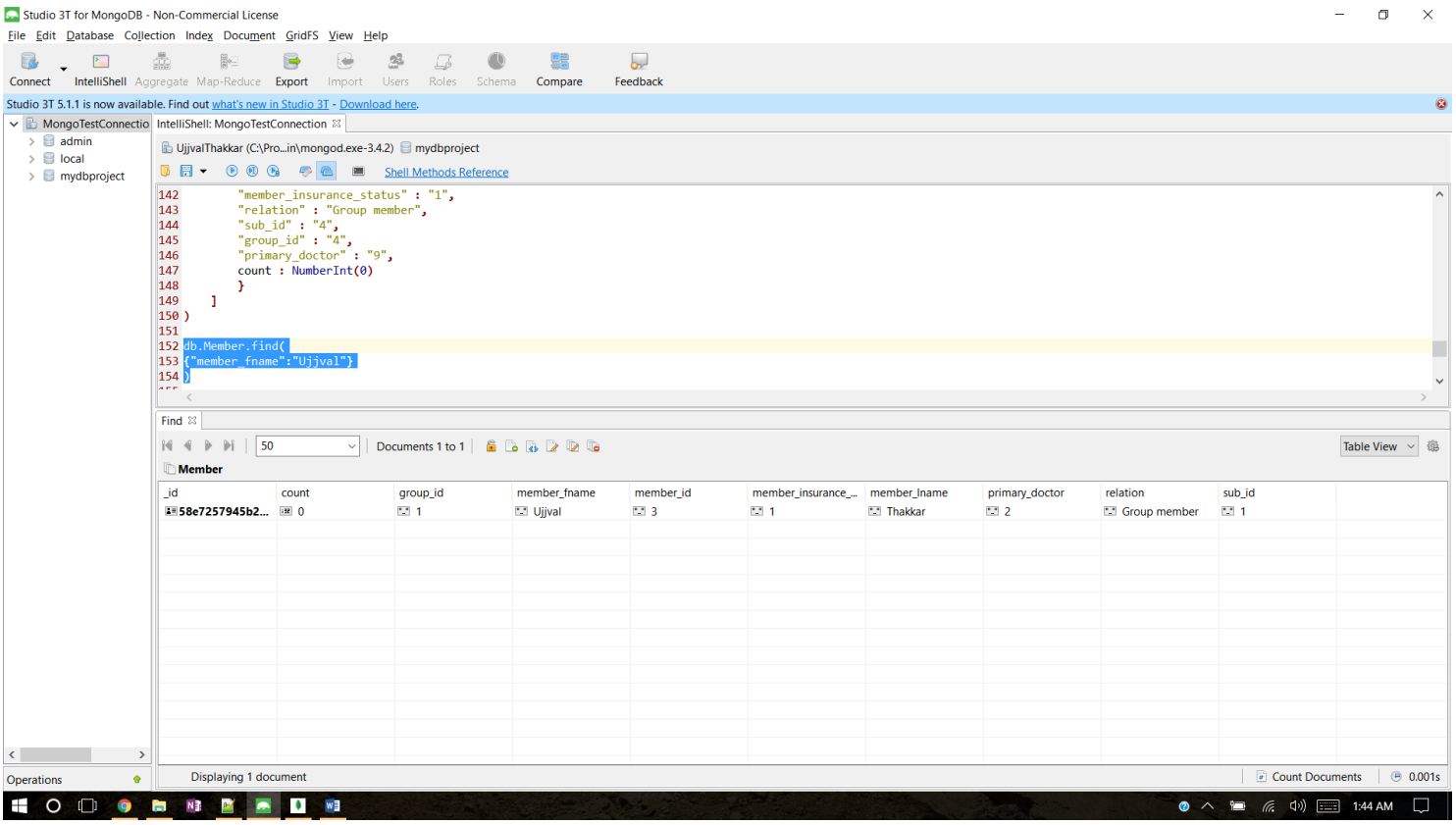
```
{
        "member_id" : "9",
        "member_fname" : "Dan",
        "member_lname" : "Summers",
        "member_insurance_status" : "1",
        "relation" : "Self",
        "sub_id" : "3",
        "group_id" : "3",
        "primary_doctor" : "5",
        count : NumberInt(0)
},
{
        "member_id" : "10",
        "member_fname" : "Steve",
        "member_lname" : "Harvey",
        "member_insurance_status" : "1",
        "relation" : "Group member",
        "sub_id" : "3",
        "group_id" : "3",
        "primary_doctor" : "5",
        count : NumberInt(0)
},
{
        "member_id" : "11",
        "member_fname" : "Jack",
        "member_lname" : "Reacher",
        "member_insurance_status" : "1",
        "relation" : "Self",
        "sub_id" : "4",
        "group_id" : "4",
        "primary_doctor" : "6",
        count : NumberInt(0)
},
{
        "member_id" : "12",
        "member_fname" : "Bill",
        "member_lname" : "Gates",
        "member_insurance_status" : "1",
        "relation" : "Group member",
        "sub_id" : "4",
        "group_id" : "4",
        "primary_doctor" : "7",
        count : NumberInt(0)
},
{
        "member_id" : "13",
        "member_fname" : "Mathew",
```

```
        "member_lname" : "Hayden",
        "member_insurance_status" : "1",
        "relation" : "Group member",
        "sub_id" : "4",
        "group_id" : "4",
        "primary_doctor" : "9",
        count : NumberInt(0)
}
]
)
```



Search through the Members in your mongo collection and return a document based on searching for a name

```
db.Member.find(
{"Member_fname":"Ujjval"}
)
```



Update the document and change the name

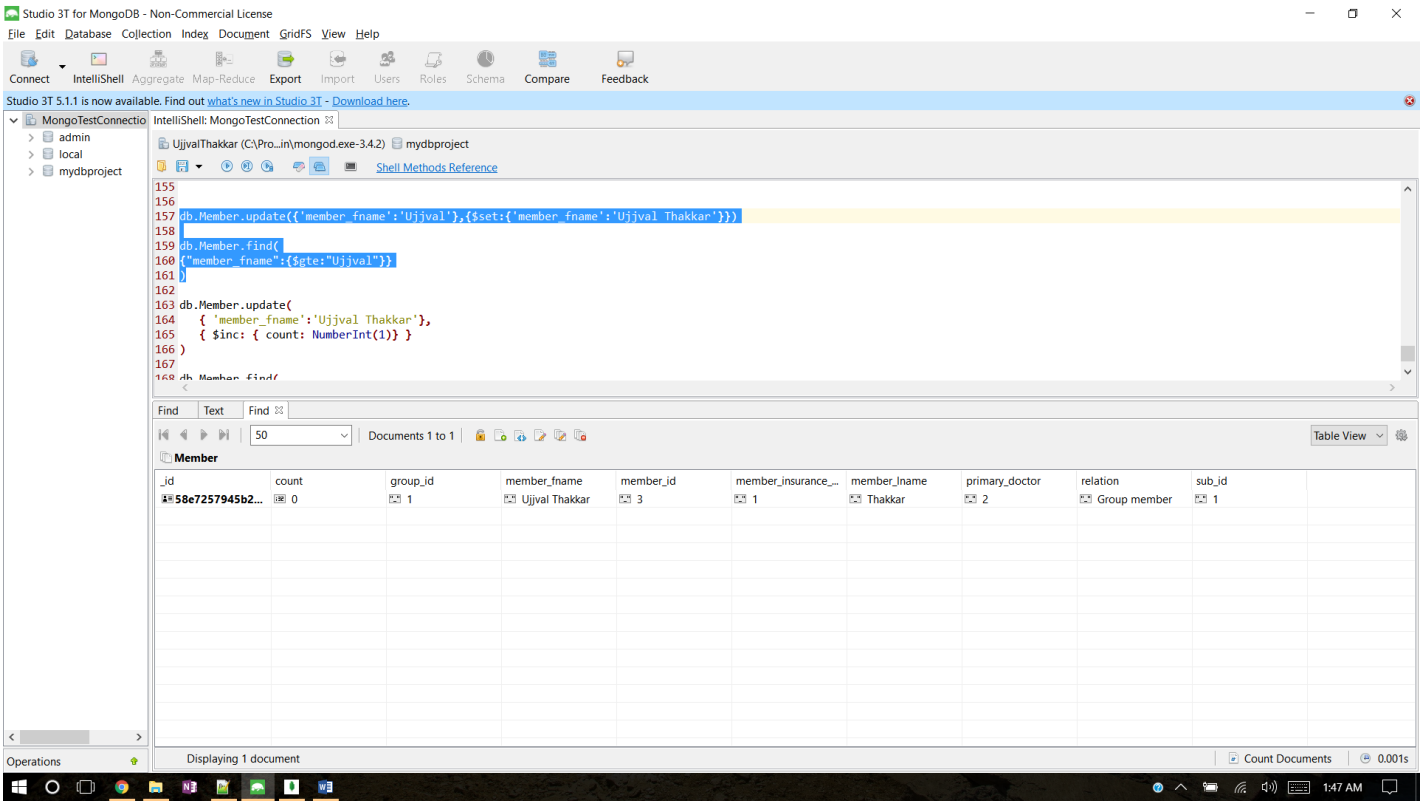
db.Member.update({'member_fname':'Ujjval'},{$set:{'member_fname':'Ujjval Thakkar'}})

db.Member.find(
{"member_fname":{$gte:"Ujjval"}}
)

Explanation:

First query, Updates the document with fname as “Ujjval” to fname as “Ujjval Thakkar”

The second query, Finds a member with name >= “Ujjval”
$gte => Greater than or equal to (>=)



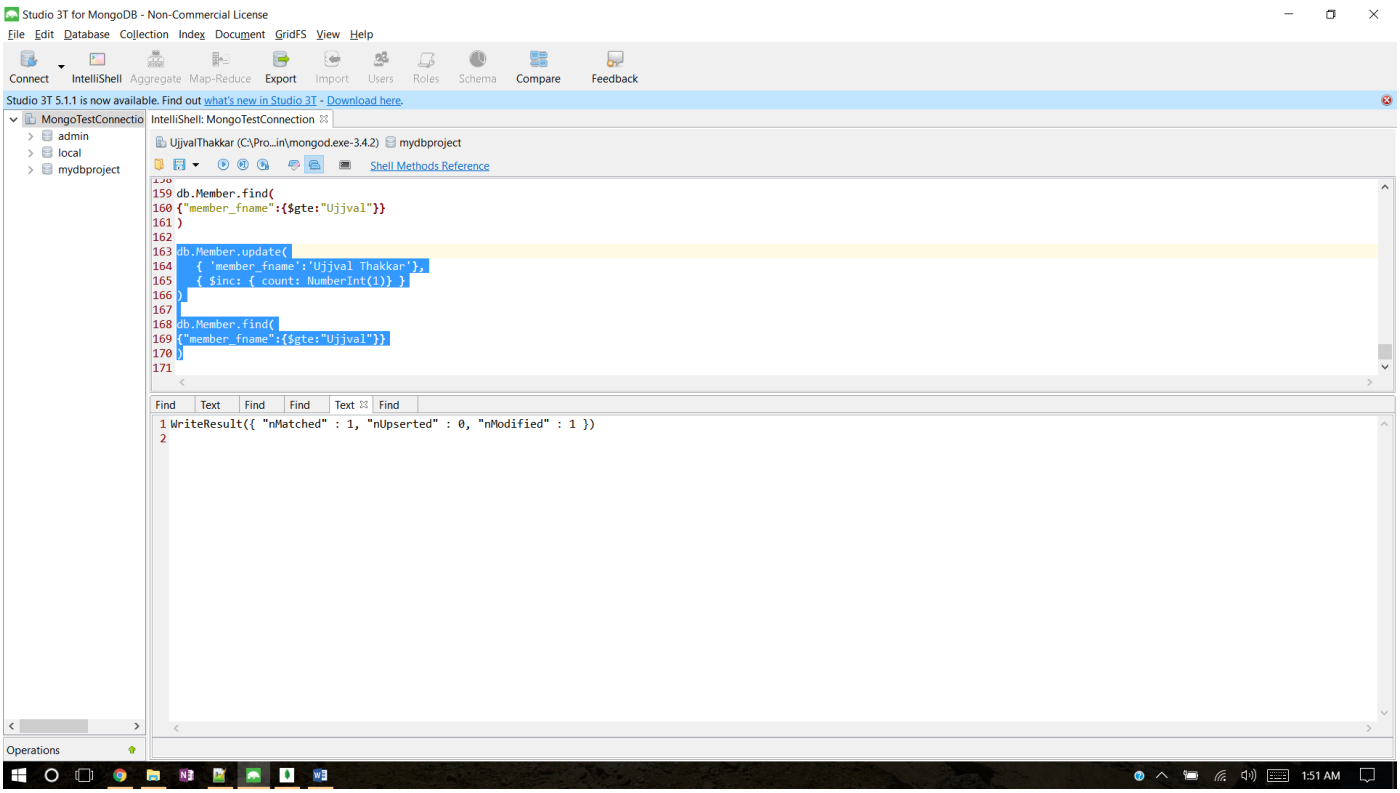
<u>Update the document again and increment a integer value if you collection doesn't have any integers add one to it and then increment it.</u>

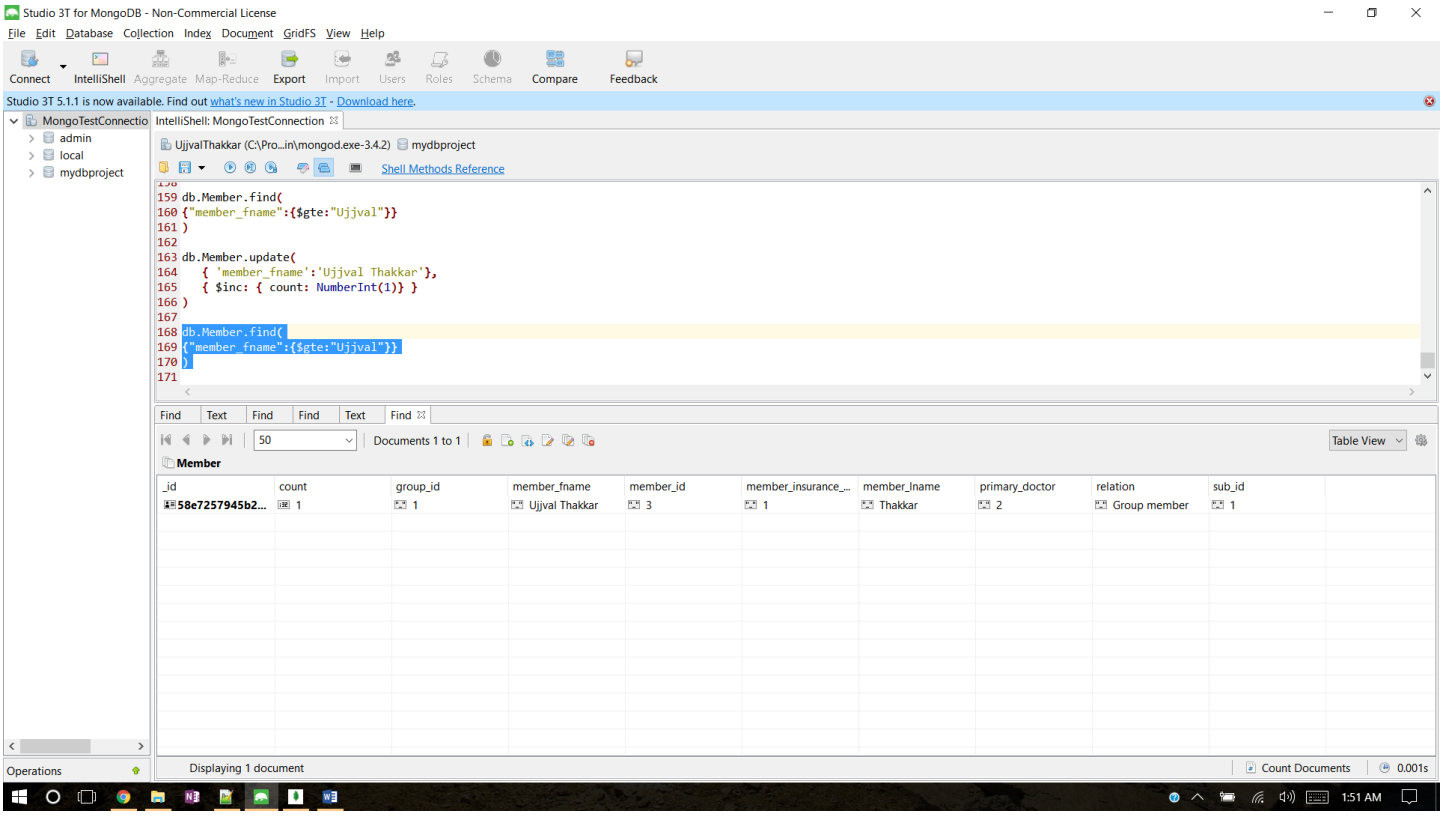
```
db.Member.update(
  { 'member_fname':'Ujjval Thakkar'},
  { $inc: { count: NumberInt(1)} }
)

db.Member.find(
{"member_fname":{$gte:"Ujjval"}}
)
```

<u>Explanation:</u>

The first query, increments and adds an Integer value ‘1’ to the existing integer value of ‘count’, which is updated from 0 to 1.

The second query, Finds a member with name >= “Ujjval” and confirms the increment update.
$gte => Greater than or equal to (>=)





Explain the difference between save and insert in mongo

- The save() method replaces the existing document with the new document passed in the save() method.
- To insert data into MongoDB collection, you need to use MongoDB's insert() or save() method.
- To insert the document you can use db.post.save(document) also. If you don't specify _id in the document then save() method will work same as insert() method. If you specify _id then it will replace whole data of document containing _id as specified in save() method.
- If a document does not exist with the specified _id value, the save() method performs an insert with the specified fields in the document.
- If a document exists with the specified _id value, the save() method performs an update, replacing all field in the existing record with the fields from the document.
- For save, If the document contains _id, it will upsert querying the collection on the _id field, If not, it will insert.
    - *"**UPSERT**" definition. "UPSERT" is a DBMS feature that allows a DML statement's author to atomically either insert a row, or on the basis of the row already existing, UPDATE that existing row instead, while safely giving little to no further thought to concurrency.*