Lab 9 – Week 12

(MongoDB – UPDATE)

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Submission

Tasks

1. Write an update statement to add new fields *program* and *term* to all documents in the *students* collection and set them to values "*CPA*" and *1*.

```
college> db.students.updateMany({},{$set:{program: "CPA", term: 1}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 27,
  modifiedCount: 27,
  upsertedCount: 0
}
college>
```

2. Write an update statement to modify the value of the *program* field to "*BTM"* for all documents in the *students* collection.

```
college> db.students.updateMany({},{$set:{program: "BTM"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 27,
  modifiedCount: 0,
  upsertedCount: 0
}
college> db.students.find({}, { name: 1, program: 1, _id: 0 }).pretty();
[
  { name: 'aimee Zank', program: 'BTM' },
  { name: 'Aurelia Menendez', program: 'BTM' },
  { name: 'Corliss Zuk', program: 'BTM' },
  { name: 'Bao Ziglar', program: 'BTM' },
  { name: 'Zachary Langlais', program: 'BTM' },
  { name: 'Wilburn Spiess', program: 'BTM' },
  { name: 'Jenette Flanders', program: 'BTM' },
  { name: 'Salena Olmos', program: 'BTM' },
  { name: 'Daphne Zheng', program: 'BTM' },
  { name: 'Sanda Ryba', program: 'BTM' },
  { name: 'Denisha Cast', program: 'BTM' },
  { name: 'Marcus Blohm', program: 'BTM' },
  { name: 'Quincy Danaher', program: 'BTM' },
  { name: 'Jessika Dagenais', program: 'BTM' },
  { name: 'Alix Sherrill', program: 'BTM' },
  { name: 'Tambra Mercure', program: 'BTM' },
  { name: 'Dodie Staller', program: 'BTM' },
  { name: 'Fletcher Mcconnell', program: 'BTM' },
  { name: 'Verdell Sowinski', program: 'BTM' },
  { name: 'Gisela Levin', program: 'BTM' }
]
```

3. Write an update statement to modify the value of the program field to "*CPA"* for the student named *Jonie Raby*.
   Before executing an update statement or a delete statement, you can use the *find()* method with the update or delete criteria, to see how many documents will be affected.
   Write the update statement in the box below.

```
college> db.students.find({ name: "Jonie Raby" }).count();
1
college> db.students.updateMany({name: "Jonie Raby"}, {$set: {program: "CPA" } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

How many documents are there with the value *Jonie Raby* for the *name* field? __1_____
How many documents were updated? _____1___

4. Write a query to show only the *program* field for the document that the value of the filed *name* is *Jonie Raby*.

```
college> db.students.find({ name: "Jonie Raby" }, {program: 1, _id: 0 });
[ { program: 'CPA' } ]
college>
```

5. Write an update statement to increase the value of the *term* field by 2 for documents with *_id* 20, 22, and 24.

```
college> db.students.updateMany({_id: {$in: [20, 22, 24] } }, {$inc: {term: 2} });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
college>
```

```
college> db.students.find({ _id: { $in: [20, 22, 24] } }, { name: 1, term: 1, _id: 1 }).pretty();
[
  { _id: 20, name: 'Tressa Schwing' },
  { _id: 22, name: 'Margart Vitello' },
  { _id: 24, name: 'Jesusa Rickenbacker' }
]
college>
```

6. Write an update statement to remove the *term* field from documents that the value of the *term* filed is 3.

```
college> db.students.updateMany({ term: 3 }, {$unset: {term: ""} });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
```