Lab 9 – MongoDB – CRUD

# Objective

In this lab, students learn how to update documents in a MongoDB database.

**update():** This method updates one document by default. If you want to update all documents that match the criteria using this method, you need the option {multi:true}.

update(<filter>,<update>,<option>)

The *filter* parameter specifies the criteria. For instance:

{“\_id”= 0}

{} for updating all documents

The *update* parameter specifies the changes that will be applied to a document.

**updateOne():** This method updates only the first document that matches the criteria.

updateOne(<filter>,<update>)

**updateMany():** This method updates all documents that match the criteria.

updateMany(<filter>,<update>)

# Getting Started

In this lab, you will use students.json dataset. Download students.json from Blackboard and store it in a folder named dataset.

Import the dataset into a new MongoDB database named “college” and into a Collection named “students”. You can either use the command prompt to insert the data or compass.

You should see the database *college* added to the list of your databases. To see the documents inside the database:

> use college  
> db.students.find().forEach(printjson)

or

> db.students.find().pretty()

# Submission

Your submission will be online through the provided Lab 09 Submission quiz. Please copy and paste your commands and resulting output into the associated task questions in the quiz.

## 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*.
2. Write an update statement to modify the value of the *program* field to “*BTTM”* for all documents in the *students* collection.
3. Write an update statement to modify the value of the program field to “*CPA”* for the student named *Jonie Raby*.
4. 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.
   * How many documents are there with the value *Jonie Raby* for the *name* field?
   * How many documents were updated?
5. Write a query to show only the *program* field for the document that the value of the filed *name* is *Jonie Raby*.
6. Write an update statement to increase the value of the *term* field by 2 for documents with *\_id* 20, 22, and 24.
7. Write an update statement to remove the *term* field from documents that the value of the *term* filed is 3.