## Q1 Write a MongoDB guery to find all students excluding \_id and LastName Field

```
for i in coll_create.find({}, { "_id": 0, "LastName": 0 }):
    print(i)

✓ 0.0s

'' {'RollNum': 18, 'FirstName': 'Eve', 'Age': 19, 'Department': 'Mathematics', 'Mark': 56}
    {'RollNum': 67, 'FirstName': 'Alice', 'Age': 22, 'Department': 'Physics', 'Mark': 59}
    {'RollNum': 23, 'FirstName': 'Bob', 'Age': 21, 'Department': 'Computer Science', 'Mark': 81}
    {'RollNum': 84, 'FirstName': 'Mike', 'Age': 23, 'Department': 'Physics', 'Mark': 92}
    {'RollNum': 43, 'FirstName': 'John', 'Age': 20, 'Department': 'Computer Science', 'Mark': 78}
    {'RollNum': 67, 'FirstName': 'Alice', 'Age': 20, 'Department': 'Physics', 'Mark': 59}
    {'RollNum': 23, 'FirstName': 'Bob', 'Age': 21, 'Department': 'Computer Science', 'Mark': 81}
    {'RollNum': 18, 'FirstName': 'Eve', 'Age': 19, 'Department': 'Mathematics', 'Mark': 56}
    {'RollNum': 84, 'FirstName': 'Mike', 'Age': 23, 'Department': 'Physics', 'Mark': 92}
```

## Q2 Update the student's age with Rollnum 67 to 26 years

```
Q3 Increase the Age of all students by 1
       doll_create.update_many({}, {"$inc": {"Age": 1}})
       for i in coll create.find():
           print(i)
   ✓ 0.1s
                                                                                                                                                                                                                     Python
 ObjectId('65490afd1d0bc40daf734aa0'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 23, 'Department': 'Mathematics', 'Mark': 56}
 ObjectId('65490afd1d0bc40daf734a9e'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 30, 'Department': 'Physics', 'Mark': 59}
 ObjectId('65490afd1d0bc40daf734a9f'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 25, 'Department': 'Computer Science', 'Mark': 81}
 ObjectId('65490afd1d0bc40daf734aa1'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 27, 'Department': 'Physics', 'Mark': 92}
 ObjectId('65490afd1d0bc40daf734a9d'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 24, 'Department': 'Computer Science', 'Mark': 78}
 ObjectId('6558e03b69c09cb4aa8538cb'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 24, 'Department': 'Computer Science', 'Mark': 78}
 ObjectId('6558e03b69c09cb4aa8538cc'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 26, 'Department': 'Physics', 'Mark': 59}
ObjectId('6558e03b69c09cb4aa8538cd'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 25, 'Department': 'Computer Science', 'Mark': 81}
 ObjectId('6558e03b69c09cb4aa8538ce'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 23, 'Department': 'Mathematics', 'Mark': 56}
 ObjectId('6558e03b69c09cb4aa8538cf'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 27, 'Department': 'Physics', 'Mark': 92}
 Q4 Increment 5 Mark for all students in the "Computer Science" department.
       coll_create.update_many({ "Department": "Computer Science" }, { "$inc": { "Mark": 5 } })
       print(i)
   ✓ 0.1s
                                                                                                                                                                                                                    Python
ObjectId('65490afd1d0bc40daf734aa0'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 23, 'Department': 'Mathematics', 'Mark': 56}
ObjectId('65490afd1d0bc40daf734a9e'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 30, 'Department': 'Physics', 'Mark': 59}
ObjectId('65490afd1d0bc40daf734a9f'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 25, 'Department': 'Computer Science', 'Mark': 86}
 ObjectId('65490afd1d0bc40daf734aa1'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 27, 'Department': 'Physics', 'Mark': 92}
 ObjectId('65490afd1d0bc40daf734a9d'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 24, 'Department': 'Computer Science', 'Mark': 83} ObjectId('6558e03b69c09cb4aa8538cb'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 24, 'Department': 'Computer Science', 'Mark': 83}
ObjectId('6558e03b69c09cb4aa8538cc'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 26, 'Department': 'Physics', 'Mark': 59}
ObjectId('6558e03b69c09cb4aa8538cd'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 25, 'Department': 'Computer Science', 'Mark': 86}
ObjectId('6558e03b69c09cb4aa8538ce'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 23, 'Department': 'Mathematics', 'Mark': 56}
ObjectId('6558e03b69c09cb4aa8538cf'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 27, 'Department': 'Physics', 'Mark': 92}
   Q5 Reduce 10 Marks for all students in the "Mathematics" department.
          ll_create.update_many({ "Department": "Mathematics" }, { "$inc": { "Mark": -10 } })
          for i in coll create.find():
               print(i)
34] 		 0.1s
                                                                                                                                                                                                                     Pvthon
   ObjectId('65490afd1d0bc40daf734aa0'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 23, 'Department': 'Mathematics', 'Mark': 46}
   ObjectId('65490afd1d0bc40daf734a9e'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 30, 'Department': 'Physics', 'Mark': 59} 
ObjectId('65490afd1d0bc40daf734a9f'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 25, 'Department': 'Computer Science', 'Mark': 86} 
ObjectId('65490afd1d0bc40daf734aa1'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 27, 'Department': 'Physics', 'Mark': 92}
   ObjectId('65490afd1d0bc40daf734a9d'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 24, 'Department': 'Computer Science', 'Mark': 83} ObjectId('6558e03b69c09cb4aa8538cb'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 24, 'Department': 'Computer Science', 'Mark': 83}
   ObjectId('6558e03b69c09cb4aa8538cc'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 26, 'Department': 'Physics', 'Mark': 59}
ObjectId('6558e03b69c09cb4aa8538cd'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 25, 'Department': 'Computer Science', 'Mark': 86}
```

ObjectId('6558e03b69c09cb4aa8538ce'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 23, 'Department': 'Mathematics', 'Mark': 46} ObjectId('6558e03b69c09cb4aa8538cf'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 27, 'Department': 'Physics', 'Mark': 92}

```
print(result)

8] 

0.0s

[{'_id': 'null', 'averageAge': 25.4}]
```