## MongoDB 03

1) Create a Database called student

```
> use student
switched to db student
```

2) Create a collection called studentmarks

```
> db.createCollection("studentmarks")
{ "ok" : 1 }
```

3) Create the documents listed in above table.

```
> db.studentmarks.insertt([{ name':'mala','Maths_marks':45, english_marks':35,'science_marks':72,{'name':'Vanu','maths_marks':80,'english_marks':75,'science_marks':85},{'name':'Aruli','maths_marks':78,'english_marks':76,'science_marks':65},{'name':'Aruli','maths_marks':78,'english_marks':76,'science_marks':65},{'name':'Maths_marks':78,'english_marks':76,'science_marks':65},{'name':'Maths_marks':32,'english_marks':76,'science_marks':45},('name':'Gva','maths_marks':71,'english_marks':71,'english_marks':75,'science_marks':65,'mame':'Gva','maths_marks':71,'english_marks':75,'science_marks':88}])
BulkWriteResult({
    "writeErrors" : [],
    "writeConcernErrors" : [],
    "nInserted" : 0,
    "nMatched" : 0,
    "nModified" : 0,
    "nModified" : 0,
    "nnemoved" : 0,
    "nperoved" : []
```

4) Increase the maths marks of Mala by 6 marks

5) List the names of students who got more than 50 marks in Maths Subject.

6)Add a new column(field) for Average for all students.

```
> db.studentmarks.update({},{$set:{"average":1}},{upsert:false,multi:true})
WriteResult({ "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
> db.studentmarks.find().pretty()
         " id" : ObjectId("5b42e997f485181c93131f44"),
         "name" : "Mala",
         "maths_marks" : 51,
         "english_marks" : 53,
         "science marks": 72,
         "average": 1
         "_id" : ObjectId("5b42e997f485181c93131f45"),
         "name" : "Vanu",
         "maths marks" : 80,
         "english_marks" : 75,
         "science_marks" : 85,
"average" : 1
         " id" : ObjectId("5b42e997f485181c93131f46"),
         "name" : "Kala",
         "maths_marks" : 32,
         "english marks" : 46,
         "science_marks" : 53,
"average" : 1
         " id" : ObjectId("5b42e997f485181c93131f47"),
         "name" : "Aruli"
         "maths_marks" : 78,
         "english_marks" : 85,
         "science_marks" : 80,
"average" : 1
         " id" : ObjectId("5b42e997f485181c93131f48"),
         "name" : "Shayu".
         "maths_marks" : 80,
         "english_marks" : 76,
         "science_marks" : 65,
         "average": 1
         "science_marks" : 72,
         "maths marks" : 6,
         "average" : ""
          " id" : ObjectId("5b3f08ce185c2c114774a1b6"),
         "name" : "Vanu",
         "maths_marks" : 80,
          "english marks": 75,
         "science marks": 85,
          "average" : ""
         " id" : ObjectId("5b3f08ce185c2c114774a1b7"),
         "name" : "Kala",
          "maths_marks" : 32,
          "english marks" : 46,
          "science marks" : 53,
```

7) Update Marks\_Science=75 to Lucky .

```
> db.studentmarks.update({'name':'Lucksy','science_marks':45},{$set:{'name':'Lucky','Marks_science':75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
{
    "_id" : ObjectId("5b42e997f485181c93131f4a"),
    "name" : "Lucky",
    "maths_marks" : 66,
    "english_marks" : 90,
    "science_marks" : 45,
    "Marks_science" : 75
}
```

8) List the names who got more than 50 marks in all subjects.

```
db.studentmarks.find({'maths_marks':{$gt:50}}).pretty()
        "_id" : ObjectId("5b42e997f485181c93131f44"),
        "name" : "Mala",
        "maths marks" : 51,
        "english_marks" : 53,
"science_marks" : 72
        " id" : ObjectId("5b42e997f485181c93131f45"),
        "name" : "Vanu",
"maths_marks" : 80,
        "english_marks" : 75,
"science_marks" : 85
        "_id" : ObjectId("5b42e997f485181c93131f47"),
        "name" : "Aruli",
"maths_marks" : 78,
        "english_marks" : 85,
"science_marks" : 80
        " id" : ObjectId("5b42e997f485181c93131f48"),
        "name" : "Shayu",
"maths_marks" : 80,
        "english_marks" : 76,
        "science_marks" : 65
        " id" : ObjectId("5b42e997f485181c93131f4a"),
        "name" : "Lucky",
"maths_marks" : 66,
        "english_marks" : 90,
"science_marks" : 45,
"Marks_science" : 75
        " id" : ObjectId("5b42e997f485181c93131f4b"),
        "name" : "Gva",
"maths_marks" : 71,
        "english marks" : 75,
```

```
20db.studentmarks.find({'science_marks':{$gt:50}}).pretty()
          "_id" : ObjectId("5b42e997f485181c93131f44"),
          "name" : "Mala",
          "maths_marks" : 51,
"english_marks" : 53,
          "science marks" : 72
          " id" : ObjectId("5b42e997f485181c93131f45"),
          "name" : "Vanu",
          "maths_marks" : 80,
          "english_marks" : 75,
          "science_marks" : 85
          " id" : ObjectId("5b42e997f485181c93131f46"),
         "name" : "Kala",
         "maths_marks" : 32,
"english_marks" : 46,
          "science_marks" : 53
          "_id" : ObjectId("5b42e997f485181c93131f47"),
          "name" : "Aruli",
         "maths_marks" : 78,
"english_marks" : 85,
"science_marks" : 80
          " id" : ObjectId("5b42e997f485181c93131f48"),
          "name" : "Shayu".
         "maths_marks" : 80,
"english_marks" : 76,
"science_marks" : 65
          "_id" : ObjectId("5b42e997f485181c93131f49"),
          "name" : "Kumaran",
          "maths_marks" : 32,
"english_marks" : 73,
          "science marks" : 84
```

```
db.studentmarks.find({'english_marks':{$gt:50}}).pretty()
      "_id" : ObjectId("5b42e997f485181c93131f44"),
      "name" : "Mala",
      "maths marks" : 51,
      "english_marks" : 53,
      "science marks" : 72
      " id" : ObjectId("5b42e997f485181c93131f45"),
      "name" : "Vanu",
      "maths_marks" : 80,
      "english_marks" : 75,
      "science_marks" : 85
      " id" : ObjectId("5b42e997f485181c93131f47"),
      "name" : "Aruli"
      "maths marks" : 78,
      "english_marks" : 85,
"science_marks" : 80
      " id" : ObjectId("5b42e997f485181c93131f48"),
      "name" : "Shayu",
      "maths marks" : 80,
      "english_marks" : 76,
"science_marks" : 65
      "_id" : ObjectId("5b42e997f485181c93131f49"),
      "name" : "Kumaran",
      "maths_marks" : 32,
      "english_marks" : 73,
      "science marks" : 84
      "_id" : ObjectId("5b42e997f485181c93131f4a"),
      "name" : "Lucky"
      "maths marks" : 66,
      "english marks" : 90.
      "science marks" : 45,
```

9) List the names who got less than 50 marks in Maths subject and more than 50 marks in English

```
be be described by the student marks of the st
```

10) List the names who got less than 40 in both Maths and Science.

11) Remove Science column/field for Raam

```
> db.studentmarks.update({'name':'Raam'},{$unset:{'science_marks':''}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
{
    "_id" : ObjectId("5b42e997f485181c93131f4c"),
    "name" : "Raam",
    "maths_marks" : 41,
    "english_marks" : 65,
    "average" : 1
}
```

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert.

13) Rename the english\_marks column/field for John to science\_marks

```
> db.studentmarks.update({'name':'John'},{$rename:{'english_marks':'science_marks'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 0 })
>
```

14) Remove Kumaran's document from collection

```
> db.studentmarks.remove({'name':'Kumaran'})
WriteResult({ "nRemoved" : 1 })
>
```

15) Find Kala's or Aruli's math\_marks and science\_marks