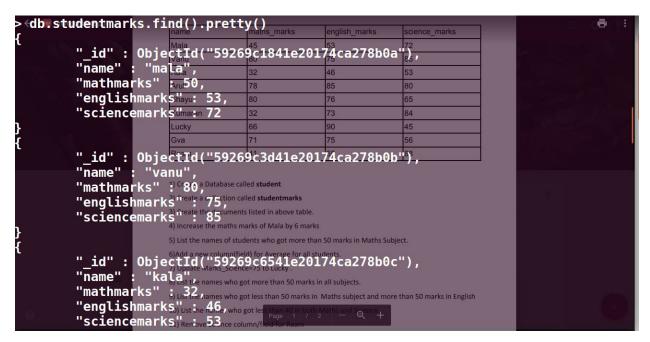# 1 Create a Database called student

2) Create a collection called studentmarks

```
> db.createCollection('studentmarks')
{
        "ok" : 0,
        "errmsg" : "a collection 'student.studentmarks' already exists",
        "code" : 48,
        "codeName" : "NamespaceExists"
}
>
```

3) Create the documents listed in above table.

```
> db.studentmarks.insert([{'name':'mala','maths_marks':45,'english_marks':53,'sc
ience_marks':73},{'name':'vanu','maths_marks':80,'english_marks':75,'science_mar
ks':85},{'name':'kala','maths_marks':32,'english_marks':46,'science_marks':53},{
'name':'aruli','maths_marks':78,'english_marks':85,'science_marks':80},{'name':'
shayu','maths_marks':80,'english_marks':76,'science_marks':65},{'name':'kumaran'
,'maths_marks':32,'english_marks':73,'science_marks':84},{'name':'lucky','maths_
marks':66,'english_marks':90,'science_marks':45},{'name':'gva','maths_marks':71,
'english_marks':75,'science_marks':56},{'name':'raam','maths_marks':41,'english_
marks':65,'science_marks':88}])
BulkWriteResult({
        "writeErrors" : [ ],
        "writeConcernErrors" : [ ],
        "nInserted" : 9,
        "nUpserted" : 0,
        "nMatched" : 0,
        "nModified" : 0,
        "nRemoved" : 0,
        "upserted" : [ ]
```

4) Increase the maths marks of Mala by 6 marks

```
> db.studentmarks.find().pretty()
{
        "_id" : ObjectId("59269c1841e20174ca278b0a"),
        "name" : "mala",
        "mathmarks" : 50,
        "englishmarks" : 53,
        "sciencemarks" : 72
}
{
        "_id" : ObjectId("59269c3d41e20174ca278b0b"),
        "name" : "vanu",
        "mathmarks" : 80,
        "englishmarks" : 75,
        "sciencemarks" : 85
}
{
        "_id" : ObjectId("59269c6541e20174ca278b0c"),
        "name" : "kala",
        "mathmarks" : 32,
        "englishmarks" : 46,
        "sciencemarks" : 53
```

name	maths_marks	english_marks	science_marks
Mala	45	53	72
Vanu	80	75	85
Kala	32	46	53
Aru	78	85	80
Shayu	80	76	65
Kumaran	32	73	84
Lucky	66	90	45
Gva	71	75	56
Raam	41	65	88

1) Create a Database called **student**

2) Create a collection called **studentmarks**

3) Create the documents listed in above table.

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.

7) Update Marks_Science=75 to Lucky.

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

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

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

11) Remove Science column/field for Raam

Page   1   /   2

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

```
    "_id" : ObjectId("5b3f0d060200d5f46bcece9c"8),
    "name" : "mala",
    "maths_marks" : 51,
    "english_marks" : 53,
    "science_marks" : 73
}
```

	66	90	45
Gva	71	75	56
Raam	41	65	88

1) Create a Database called **student**

2) Create a collection called **studentmarks**

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

```
> db.studentmarks.find({'maths_marks':{$gt:50}})
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9c"), "name" : "mala", "maths_marks" :
 51, "english_marks" : 53, "science_marks" : 73 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9d"), "name" : "vanu", "maths_marks" :
 80, "english_marks" : 75, "science_marks" : 85 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9f"), "name" : "aruli", "maths_marks"
: 78, "english_marks" : 85, "science_marks" : 80 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea0"), "name" : "shayu", "maths_marks"
: 80, "english_marks" : 76, "science_marks" : 65 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea2"), "name" : "lucky", "maths_marks"
: 66, "english_marks" : 90, "science_marks" : 45 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea3"), "name" : "gva", "maths_marks" :
71, "english_marks" : 75, "science_marks" : 56 }
>
```

7) Update Marks_Science=75 to Lucky .

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

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

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

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

```
> db.studentmarks.find({'maths_marks':{$gt:50}})
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9c"), "name" : "mala", "maths_marks" :
 51, "english_marks" : 53, "science_marks" : 73 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9d"), "name" : "vanu", "maths_marks" :
 80, "english_marks" : 75, "science_marks" : 85 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9f"), "name" : "aruli", "maths_marks"
: 78, "english_marks" : 85, "science_marks" : 80 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea0"), "name" : "shayu", "maths_marks"
: 80, "english_marks" : 76, "science_marks" : 65 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea2"), "name" : "lucky", "maths_marks"
: 66, "english_marks" : 90, "science_marks" : 75 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea3"), "name" : "gva", "maths_marks" :
71, "english_marks" : 75, "science_marks" : 56 }
```

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

```
> db.studentmarks.find({$or:[{'maths_marks':{$lt:40}},{'science_marks':{$lt:40}}
]})
{ "_id" : ObjectId("5b3f0d060200d5f46bcece9e"), "name" : "kala", "maths_marks" :
 32, "english_marks" : 46, "science_marks" : 53 }
{ "_id" : ObjectId("5b3f0d060200d5f46bcecea1"), "name" : "kumaran", "maths_marks
" : 32, "english_marks" : 73, "science_marks" : 84 }
```

11) Remove Science column/field for Raam

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

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

```
> db.studentmarks.insert([{'name':'john','maths_marks':87,'english_marks':23}])
BulkWriteResult({
        "writeErrors" : [ ],
        "writeConcernErrors" : [ ],
        "nInserted" : 1,
        "nUpserted" : 0,
        "nMatched" : 0,
        "nModified" : 0,
        "nRemoved" : 0,
        "upserted" : [ ]
```

13) Rename the english_marks column/field for John to science_marks

```
> db.studentmarks.update({'english_marks':23},{$set:{'science_marks':23}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

14) Remove Kumaran's document from collection

```
> db.studentmarks.remove({'name':'kumaran'})
WriteResult({ "nRemoved" : 3 })
```