Create a Database called student

```
use Student1
witched to db Student1
```

Create a collection called studentmarks

```
db.createCollection("Studentmarks")
"ok" : 1 }
```

Create the documents listed in above table.

```
b.studentmarks.find().pretty()
    "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4d"),
    "name" : "mala",
    "maths_marks" : 45,
    "english_marks" : 53,
    "science_marks" : 72


    "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4e"),
    "name" : "vanu",
    "maths_marks" : 80,
    "english_marks" : 75,
    "science_marks" : 85


    "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4f"),
    "name" : "kala",
    "maths_marks" : 32,
    "english_marks" : 46,
    "science_marks" : 53


    "_id" : ObjectId("5b3f0fa74bd7f078d40fcd50"),
    "name" : "aruli",
    "maths_marks" : 78,
    "english_marks" : 85,
    "science_marks" : 80


    "_id" : ObjectId("5b3f0fa74bd7f078d40fcd51"),
    "name" : "shayu",
    "maths_marks" : 80,
    "english_marks" : 76,
    "science_marks" : 65


    "_id" : ObjectId("5b3f0fa74bd7f078d40fcd52"),
    "name" : "kumaran",
    "maths_marks" : 32,
```

Increase the maths marks of Mala by 6 marks

```
db.studentmarks.update({"name":"mala"},{$inc:{"maths_marks":6}})
iteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
db.studentmarks.find().pretty()

        "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4d"),
        "name" : "mala",
        "maths_marks" : 51,
        "english_marks" : 53,
        "science_marks" : 72
```

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

```
db.studentmarks.update({"name":"mala"},{$inc:{"maths_marks":6}})
iteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
db.studentmarks.find().pretty()

        "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4d"),
        "name" : "mala",
        "maths_marks" : 51,
        "english_marks" : 53,
        "science_marks" : 72
```

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

```
b.studentmarks.aggregate({$addFields:{"avarage":null}}).pretty()

        "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4d"),
        "name" : "mala",
        "maths_marks" : 57,
        "english_marks" : 53,
        "science_marks" : 72,
        "avarage" : null


        "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4e"),
        "name" : "vanu",
        "maths_marks" : 80,
        "english_marks" : 75,
        "science_marks" : 85,
        "avarage" : null
```

Update Marks_Science=75 to Lucky .

```
"_id" : ObjectId("5b3f0fa74bd7f078d40fcd53"),
"name" : "lucky",
"maths_marks" : 66,
"english_marks" : 90,
"science_marks" : 75
```

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

```
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$gt: 40}}]}).pretty()
{
        "_id" : ObjectId("5b3f0fa74bd7f078d40fcd4f"),
        "name" : "kala",
        "maths_marks" : 32,
        "english_marks" : 46,
        "science_marks" : 53
}
{
        "_id" : ObjectId("5b3f0fa74bd7f078d40fcd52"),
        "name" : "kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "science_marks" : 84
}
{
        "_id" : ObjectId("5b443ec1761ce941518a4858"),
        "name" : "kala",
        "maths_marks" : 32,
        "english_marks" : 46,
        "science_marks" : 53
}
{
        "_id" : ObjectId("5b443ec1761ce941518a485b"),
        "name" : "kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "science_marks" : 84
}
```

Remove Science column/field for Raam

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

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

```
> db.collection.insert({"name":"jhon","maths_marks":87,"english_marks":23},{upsert:true})
WriteResult({ "nInserted" : 1 })
>
```

Rename the english_marks column/field for John to science_marks

```
> db.collection.insert({"name":"jhon","maths_marks":87,"english_marks":23},{upsert:true})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.update({"name":"jhon"},{$rename:{"maths_marks":"science_marks"}})
```

Remove Kumaran's document from collection

```
> db.studentmarks.deleteMany({"name":"kumaran","maths_marks":32,"english_marks":73,"science_marks":84})
{ "acknowledged" : true, "deletedCount" : 2 }
```

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

```
db.studentmarks.find({$and:[{"maths_marks":{$lt:50}}.{"english_marks":$gt:50}}]
}.pretty()
```