1. Create a database called student

```
> use students
switched to db students
> [
```

2. Create a collection called studentmarks

```
smottled to du students

> show collections
studentmarks
> db.studentmarks.find().prettv()
```

3. Create the documents listed in above table.

```
** db. studentwarks. field(). pretty()

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```

4. Increase the maths marks of Mala by 6 marks

```
/
> db.studentmarks.update({"name" : "Mala"},{ Sinc: {"maths_marks" : 6}} )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

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

```
db.studentmarks.find( { "maths_marks" : { $gt:50 } } ).pretty()
              "_id" : ObjectId("5d07328f94b03d2f41ef29c5"),
              "name": "Vanu",
"maths_marks": 80,
"english_marks": 75,
"science_marks": 85
             "_td" : ObjectId("5d0732d594b03d2f41ef29c7"),
"name" : "Arult",
"naths_narks" : 78,
"english_narks" : 85,
"science_narks" : 80
             "_td" : ObjectId("5d0732fc94b03d2f41ef29c8"),
"name" : "Shayu",
"naths_narks" : 80,
"english_narks" : 76,
"science_narks" : 65
            "_id" : ObjectId("5d07335494b03d2f41ef29ca"),
"name" : "Lucky",
"maths_marks" : 66,
"english_marks" : 90,
"science_marks" : 45
            "_id" : ObjectId("5d07337294b03d2f41ef29cb"),
"name" : "Gva',
"maths_marks" : 71,
"english_marks" : 75,
"science_marks" : 56
             "_td" : ObjectId("5d0770545a4f8e7ceeddaf68"),
"name" : "Mala",
"maths_marks" : 57,
"english_marks" : 53,
"science_marks" : 72
```

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

```
{ "_id" : ObjectId("5d0733a094b03d2f41ef29cc"), "name" : "Raam", "maths_marks" : 41, "english_marks" : 65, "science_marks" : 88, "average" : 64.66666666
```

7. Update Marks Science=75 to Lucky.

```
> db.studentmarks.update({"science_marks" : 45},{$set: {"name" : "Lucky","maths_marks" : 66,"english_marks" : 90,"science_marks" : 75}})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
```

```
"_id" : ObjectId("5d07335494b03d2f41ef29ca"),
"name" : "Lucky",
"naths_marks" : 66,
"english_marks" : 90,
"science_marks" : 75
```

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

```
> db.studentmarks.find( { "maths_marks": { $gt: 50 }, "english_marks": {$gt: 50}, "science_marks": {$gt: 50} }, { "name": 1, _id:0} ).pretty()
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
{ "name" : "Mala" }
> [
```

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": { $lt: 50 },"english_marks": {$gt: 50} }, {"name": 1, _id:0} ).pretty()
{ "name" : "Kumaran" }
{ "name" : "Raam" }
>
```

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

```
> db.studentmarks.find({ "maths_marks": { $lt: 40 },"science_marks": {$lt:40 }}, {"name": 1, _id:0} ).pretty()
>
```

11.Remove Science column/field for Raam

```
>
> db.studentmarks.update({"_id" : ObjectId("5cfeab8edbbb15d418e074a5")}, {$unset: {"science_marks":1}}, false, true)
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
>
```

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( {"_id" : ObjectId("5d0899f42b827689a30dafbb") }, { $rename: {"english_marks" :"science_marks" } } )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

14. Remove Kumaran's document from the collection

```
>
> db.studentmarks.remove ( {"_id" : ObjectId("5d07332b94b03d2f41ef29c9")})
WriteResult({ "nRemoved" : 1 })
```

15. Find Kala's or Aruli's math_marks and science_marks