1. Create a Database called the student

```
> use student
switched to db student
> show collections
studentmarks
```

2. Create a collection called student marks

```
    use student
    switched to db student
    show collections
    studentmarks
```

3. Create the documents listed in the above table.

> b.studentmarks.insert([{name:"Mala",maths\_marks:45,english\_marks:53,science\_marks:72},{name:"Vanu",maths\_marks:80,englidb.st
udentmarks.insert([{name:"Mala",maths\_marks:45,english\_marks:53,science\_marks:72},{name:"Vanu",maths\_marks:80,english\_marks:75,
science\_marks: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:88}])

```
db.studentmarks.find().pretty()

".id": ObjectId("S0211c9fS8fede66660b12f"),
"name": "Nala",
"naths.parks": 45,
"english.parks": 53,
"science_parks": 72

{

".id": ObjectId("S0212affS8fede66660b130"),
"name": "Vanu",
"naths.parks": 88,
"english.parks": 88,
"english.parks": 85

{

".id": ObjectId("S0212affS8fede66660b131"),
"name": Nala",
"naths.parks": 85

{

".id": ObjectId("S0212affS8fede66660b131"),
"name": "Anull",
"naths.parks": 88,
"science_parks": 53

}

{

".id": ObjectId("S02133ifS8fede66600b132"),
"name": "Anull",
"naths.parks": 78,
"english.parks": 88,
"science_parks": 88,
"science_parks": 88,
"science_parks": 88,
"science_parks": 68,
"science_parks": 78,
"science_parks": 68,
"science_parks": 78,
"scie
```

4. Increase the maths marks of Mala by 6 marks

```
> db.studentmarks.update({"name" : "Mala"},{ $inc: {"maths_marks" : 6}} )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.studentmarks.find() prottu()
```

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.

```
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```

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

```
Science_marks : 88
} 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("5d02144ef58fede66060b137")}, {$unset: {"science_marks":1}}, false, true)
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

**The result of the result
```

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

```
Activities Terminal + c 11:17

ukikcp:os@ukikcp:os.xx4zuar:-

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>

> db.studentmarks.update( {"_id" : ObjectId("5d087a35269a2685376e663a") }, { $rename: {"english_marks" :"science_marks" } } )

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

14. Remove Kumaran's document from the collection

```
Activities Terminal Terminal Pelp

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> db.studentmarks.remove ( {"_id" : ObjectId("5d0213cdf58fede66060b134")})

WriteResult({ "nRemoved" : 1 })

Activities Terminal Pelp

> db.studentmarks.remove ( {"_id" : ObjectId("5d0213cdf58fede66060b134")})
```

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