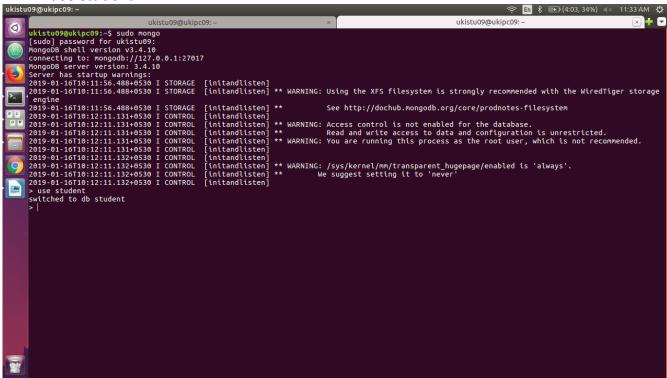
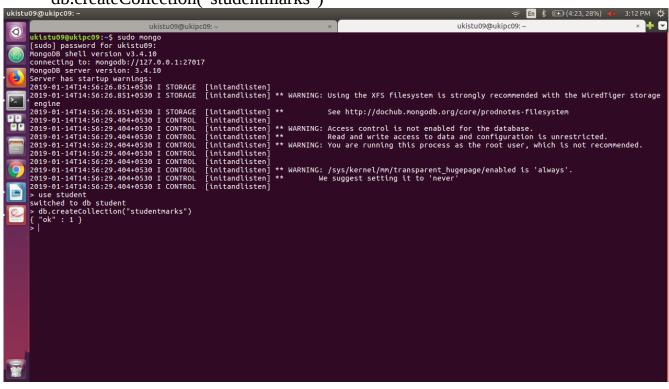
MongoDB Exercise 2

1) Create a Database called student

use student

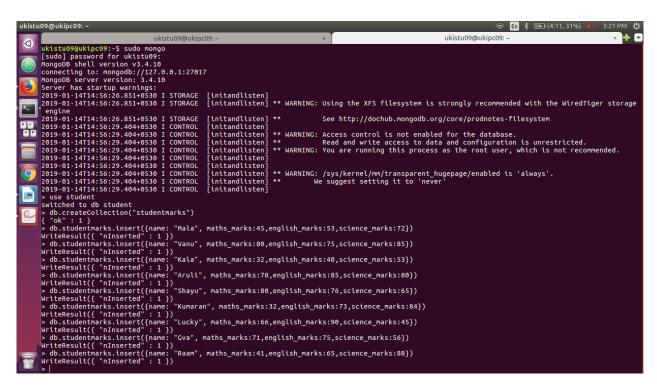


2) Create a collection called studentmarks db.createCollection("studentmarks")



3) Create the documents listed in above table.

db.studentmarks.insert({name: "Mala",maths_marks:45,english_marks:53,science_marks:72})
db.studentmarks.insert({name: "Vanu", maths_marks:80,english_marks:75,science_marks:85})
db.studentmarks.insert({name: "Kala", maths_marks:32,english_marks:40,science_marks:53})
db.studentmarks.insert({name: "Aruli", maths_marks:78,english_marks:85,science_marks:80})
db.studentmarks.insert({name: "Shayu", maths_marks:80,english_marks:76,science_marks:65})
db.studentmarks.insert({name: "Kumaran", maths_marks:32,english_marks:73,science_marks:84})
db.studentmarks.insert({name: "Lucky", maths_marks:66,english_marks:90,science_marks:45})
db.studentmarks.insert({name: "Gva", maths_marks:71,english_marks:75,science_marks:56})
db.studentmarks.insert({name: "Raam", maths_marks:41,english_marks:65,science_marks:88})



4) Increase the maths marks of Mala by 6 marks

db.studentmarks.update({name : "Mala"},{\$inc:{maths_marks:6,}})

```
ukistuo9@ukipc09:-

ukistuop@ukipc09:-

ukistuop@ukipc09:-

ukistuop@ukipc09:-

ukistu
```

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

db.studentmarks.find({ maths_marks: { \$gt: 50 } })

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

db.studentmarks.update({},{\$set:{"Average":"null"}},{multi:true})

7) Update Marks_Science=75 to Lucky.

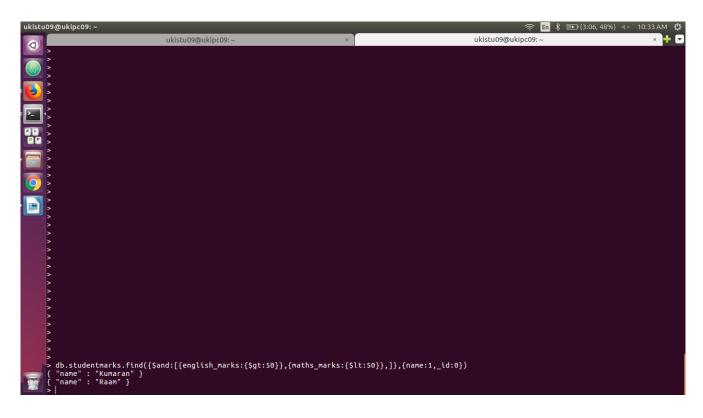
db.studentmarks.update({name:"Lucky"},{\$set:{"science_marks":75}})

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

db.studentmarks.find({\$and:[{english_marks:{\$gt:50}},{maths_marks:{\$gt:50}}},{science_marks:{\$gt:50}}],{name:1,_id:0})

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

db.studentmarks.find($\{$ \$and:[$\{$ english_marks: $\{$ \$gt:50 $\}\}$, $\{$ maths_marks: $\{$ \$lt:50 $\}\}$, $\{$, $\{$ name:1,_id:0 $\}\}$



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

db.studentmarks.find($\{$ science_marks: $\{$ \$gt: $40\}$ $\}$, $\{$ maths_marks: $\{$ \$lt: $40\}$ $\}$, $\{$ name:1,_id:0 $\}$)

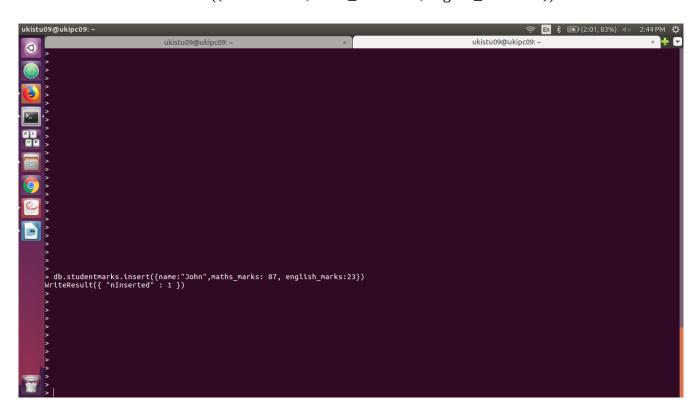
11) Remove Science column/field for Raam

db.studentmarks.update({name:"Raam"},{\$unset:{science_marks:88}})

```
ukistu09@ukipc09:-

ukist
```

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})



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

db.studentmarks.update({name:"John"},{\$rename:

{english_marks:"science_marks"}})

```
Ukistu09@ukipc09:-

Ukistu09@ukipc09:-

**Sclence_marks*: 65,

*Average*: "null"

**Ld*: ObjectId("5c3c5bb4c8ced0abb6425f91"),

**nane*: "lous*

**nane*: 17,

**english_marks*: 73,

**verage*: "null"

**sclence_marks*: 75,

**Average*: "null"

**Ld*: ObjectId("5c3c5bb4c8ced0abb6425f92"),

**nane*: "lous*

**nane*: "lous*

**nane*: "lous*

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```

14) Remove Kumaran's document from collection db.studentmarks.remove({name:"Kumaran"})

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

db.studentmarks.find({name:"Aruli"},{maths_marks:1,science_marks:1,_id:0})

```
ukistu09@ukipc09:-

ukistu09

ukistu09@ukipc09:-

ukistu0e

ukistu
```