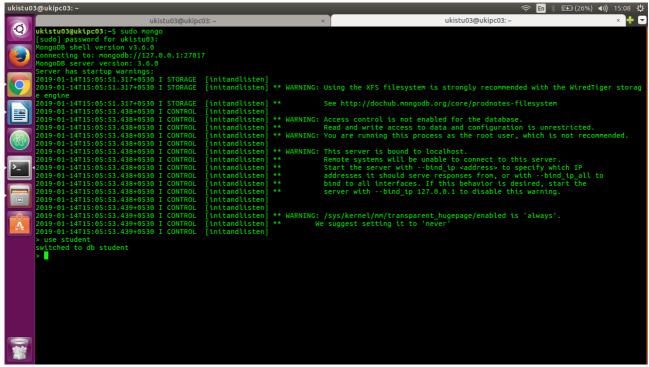
1) Create a Database called student

> use student

switched to db student



2) Create a collection called studentmarks

> db.createCollection("studentmarks")

```
| Wistu03@uklpc03:- | Wist
```

3) Create the documents listed in above table.

>db.studentmarks.insert({"name":"mala","maths_marks":45,"english_marks":53,"science_marks":7 2})

WriteResult({ "nInserted" : 1 })

```
>
db.studentmarks.insert({"name":"vanu","maths_marks":80,"english_marks":75,"science_marks":85
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"kala","maths_marks":32,"english_marks":46,"science_marks":53
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"aruli","maths_marks":78,"english_marks":85,"science_marks":80
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"shayu","maths_marks":80,"english_marks":76,"science_marks":6
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"kumaran","maths_marks":32,"english_marks":73,"science_marks
":84})
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"lucky","maths_marks":66,"english_marks":90,"science_marks":4
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"gva","maths_marks":41,"english_marks":65,"science_marks":88}
WriteResult({ "nInserted" : 1 })
                                                                          ukistu03@ukipc03:
                                             ** Read and write access to data and configuration is unrestric
** WARNING: You are running this process as the root user, which is not
                                                              --bind_ip 127.0.0.1 to disable this
                            :"lucky","maths_marks":66,"english_marks":90,"science_marks":45})
```

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 })

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

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

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

> db.studentmarks.update({},{\$set:{"average":1}},{upsert:false,multi:true})

```
Ukistu03@ukipc03:-

Ukistu03@ukipc03:-

Ukistu03@ukipc03:-

"naths_marks": 87,
"sclence_marks": 23,
"naths_marks": 23,
"naths_marks": 51,
"english_marks": 53,
"sclence_marks": 57,
"sclence_marks": 75,
"sclence_marks": 85

"id": objectid("sc3c5acb3b72sc3sbf0acd5"),
"name": "nutlu",
"naths_marks": 80,
"english_marks": 85,
"sclence_marks": 85,
"s
```

7) Update Marks_Science=75 to Lucky.

> db.studentmarks.update({"name":"lucky"},{\$set:{"marks_science":75}})

```
| wikistu03@wkipc03:- | wikistu03@wkipc03:-
```

8) List the names who got more than 50 marks in all subjects. >db.studentmarks.find({\$and:[{"maths_marks":{\$gt:50}},{"english_marks":{\$gt:50}},{"science_marks":{\$gt:50}}]},{"name":1,_id:0}).pretty()

9) List the names who got less than 50 marks in Maths subject and more than 50 marks in English > db.studentmarks.find($\{$ sand:[$\{$ "maths_marks": $\{$ \$lt:50 $\}$ }, $\{$ "english_marks": $\{$ \$gt:50 $\}$ }]},

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| Wistu03@ukipc03:-
| Wis
```

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}}]}, {"name":1,_id:0}).pretty()

11) Remove Science column/field for Raam

> db.studentmarks.remove({"name":"raam"},{"science_marks":88})

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert. > db.studentmars.insert({"name":"john","maths_marks":87,"english_marks":23})

```
| Ukistu03@ukipc03:- | | Ukistu08. | | Ukistu03@ukipc03:- | | Ukistu08. | Ukistu0
```

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

> db.studentmarks.update({"name":"john"},{\$rename:{"english_marks":"science_marks"}})

ukistuo3@ukipc03:
ukistuo3@ukipc0s:
ukistuo3@ukipc03:
ukistuo3@ukipc0s:
ukistuo3@ukipc0s:
ukistuo3@ukipc0s:-

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({\$or:[{"name":"shayu"},{"name":"mala"}]},{"maths_marks":1})