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":43,"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":46,"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,"englis h 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_m arks":75,"science_marks":56})

db.studentmarks.insert({"name":"Raam","maths_marks":41,"en glish_marks":65,"science_marks":88})

4) Increase the maths marks of Mala by 6 marks

>

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

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

> db.studentmarks.find({"maths_marks":{\$gt:50}},{"name":1,_id:0})

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

>db.studentmarks.aggregate({\$addFields:{"Average":""}}).pretty()

```
databol/publication

abstrot/publication

abstrot/p
```

7) Update Marks_Science=75 to Lucky.

>db.studentmarks.update({"name":"Luck"},{\$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}},{"science_marks":{\$gt:50}},{"maths_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}},{"math s_marks":{\$lt:50}}]},{"name":1,_id:0})

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

>db.studentmarks.find({\$or:[{"maths_marks":{\$lt:40}},{"science_mark s":{\$lt:40}}]},{"name":1,_id:0})

11) Remove Science column/field for Raam

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

```
"maths marks": 71,
"english marks": 75,
"science_marks": 56
"manpobl.serecies?
"id": ObjectId("5c3c59e4d3dd79b4b7f5ac0e"),
"namers." "Roam",
"naths marks": 41,
"english marks": 65,
"science_marks": 65,
"science_marks": 81,
"english marks": 65,
"science_marks": 88,
"science_marks":
```

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_m arks":23})

```
### "science marks": 56

# id": ObjectId("sc3c59e4d3dd79b4b7f5ac0e"),

# "idm": Raam",

# "maths marks": 41,

# "english marks": 65,

# "science_marks": 88,

# "science_marks": 88,

# "science_marks": 88,

# "science_marks": 81,

# "english marks": 65,

# "science_marks": 88,

# "science_marks": 89,

# "science_marks": 88,

# "science_marks": 88,

# "science_marks": 89,

# "science_marks
```

13) Rename the english_marks column/field for John to science marks

_

db.studentmarks.update({"name":"John"},{\$rename:{"english_marks":"scien ce_marks"}})

```
"science_marks": 56

"science_marks": 41,
"english marks.": 41,
"english marks.": 88

| b.studentmarks.update(("name":"lucky"), (sset:("science_marks":75))
| color=list | col
```

14) Remove Kumaran's document from collection

> db.studentmarks.remove({"name":"Kumaran"})

```
**Comparison marks**: 76.

**Science_marks**: 65

**Science_marks**: 65

**Science_marks**: 83.

**Imane**: **Numerane**: 73.

**Jab*: **ObjectId(*5c3c594d3dd79b4b7f5ac0c**),

**Imane**: **Luck**,

**Imane**: **Luck**,

**Science_marks**: 99.

**Science_marks**: 99.

**Science_marks**: 99.

**Science_marks**: 99.

**Science_marks**: 56

**Jab*: **Jab*: 56

**Jab*:
```

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

>db.studentmarks.find({\$or:[{"name":"Kala"},{"name":"Aruli"}]},{"maths_marks":1,"science_marks":1}).pretty()