

1) Create a Database called student

```
> use student
switched to db student
> db
student
>
```

2) Create a collection called studentmarks

```
> db.createCollection("studentmarks")
{ "ok" : 1 }
> show collections
studentmarks
>
```

3) Create the documents listed in above table.

```
> db.studentmarks.insert([{"name":"Mela","maths_marks":45,"english_marks":53,"science_marks":72}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Vanu","maths_marks":80,"english_marks":75,"science_marks":85}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Kala","maths_marks":32,"english_marks":46,"science_marks":53}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Arull","maths_marks":78,"english_marks":85,"science_marks":80}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
```

name	maths_marks	english_marks	science_marks
Mela	45	53	72
Vanu	80	75	85
Kala	32	46	53
Arull	78	85	80

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2) Create a collection called studentmarks

```
> db.createCollection("studentmarks")
{ "ok" : 1 }
> show collections
studentmarks
>
```

3) Create the documents listed in above table.

4) Increase the maths marks of Mela by 6 marks

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

```

> db.studentmarks.insert([{"name":"Shayu","maths_marks":80,"english_marks":76,"science_marks":65}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Kumaran","maths_marks":32,"english_marks":73,"science_marks":84}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Lucy","maths_marks":66,"english_marks":90,"science_marks":45}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Gva","maths_marks":71,"english_marks":75,"science_marks":56}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.studentmarks.insert([{"name":"Raam","maths_marks":41,"english_marks":65,"science_marks":88}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})

```

1) Create a Database called student

```

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> db
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>

```

2) Create a collection called studentmarks

```

> db.createCollection('studentmarks')
{
  "ok" : 1,
  "errmsg" : "collection 'studentmarks' created",
  "code" : 0
}
> show collections
studentmarks
>

```

3) Create the documents listed in above table.

Name	Maths Marks	English Marks	Science Marks
Kumaran	32	73	84
Lucy	66	90	45

4) Increase the maths marks of Mala by 6 marks

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

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 })

```

```

{
  "_id" : ObjectId("5d146781dec574f7d1491370"),
  "name" : "Lucky",
  "maths_marks" : 66,
  "english_marks" : 90,
  "science_marks" : 75
}
>

```

1) Create a Database called student

2) Create a collection called studentmark

3) Create the documents listed in above t

4) Increase the maths marks of Mala by 6

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

```
> db.studentmarks.find({maths_marks:{>50}}).pretty()
{
  "_id" : ObjectId("5d144dfce12953c3823da366"),
  "name" : "Vanu",
  "maths_marks" : 80,
  "english_marks" : 75,
  "science_marks" : 85

  "_id" : ObjectId("5d144e50e12953c3823da368"),
  "name" : "Aruli",
  "maths_marks" : 78,
  "english_marks" : 85,
  "science_marks" : 80

  "_id" : ObjectId("5d144e75e12953c3823da369"),
  "name" : "Shayu",
  "maths_marks" : 80,
  "english_marks" : 76,
  "science_marks" : 65

  "_id" : ObjectId("5d144f01e12953c3823da36c"),
  "name" : "Gva",
  "maths_marks" : 71,
  "english_marks" : 75,
  "science_marks" : 56
}
```

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

```
> db.studentmarks.update({},{$set:{'Average':1}},{upsert:false,multi:true})
WriteResult({ "nMatched" : 8, "nUpserted" : 0, "nModified" : 8 })
> kaja.png
```

7) Update Marks_Science=75 to Lucky .

```
> db.studentmarks.update({science_marks:45},{>db.set:{science_marks:75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

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

```
> db.studentmarks.find({>db.and:[{maths_marks:{>50}},{english_marks:{>50}}]},{_id:0,name:1}).pretty()
{ "name" : "Kumaran" }
{ "name" : "Raam" }
>
```


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

```
> db.studentmarks.find({$and:[{maths_marks:{$lt:50}},{english_marks:{$gt:50}}]},{_id:0,name:1}).pretty()
{ "name" : "Kumaran" }
{ "name" : "Raam" }
```

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

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

11) Remove Science column/field for Raam

```
> db.studentmarks.update({name:"Raam"},{$unset:{science_marks:88}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
{
  "_id" : ObjectId("5d144f27e12953c3823da36d"),
  "name" : "Raam",
  "maths_marks" : 41,
  "english_marks" : 65
}
```

11) Remove Science column/field for Raam

12) Update John's Math mark as 87 and English

13) Rename the english_marks column/field for

14) Remove Kumaran's document from collecti

15) Find Kala's or Arul's math marks and scien

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},{upsert:true})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.find().pretty()
```

```
{
  "_id" : ObjectId("5d1482c896e0eabdc53c386e"),
  "name" : "john",
  "maths_marks" : 87,
  "english_marks" : 23
}
```

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

```
> db.studentmarks.update({"_id" : ObjectId("5d148b9ddec574f7d1491374")},{rename:{english_marks:"science_marks"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.studentmarks.find().pretty()
```

```
{
  "_id" : ObjectId("5d148b9ddec574f7d1491374"),
  "name" : "John",
  "maths_marks" : 87,
  "science_marks" : 23
}
```

Note - Make sure all your answer screenshots

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14) Remove Kumaran's document from collection

```
> db.studentmarks.remove({name:"Kumaran"})
WriteResult({ "nRemoved" : 1 })
>
```

12) Update John's M

13) Rename the eng

14) Remove Kumar

15) Find Kala's or

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

```
> db.studentmarks.find({$or:[{name:"Aruli"},{name:"Kala"}]}, {_id:0,name:1,maths_marks:1,science_marks:1}).pretty()
{ "name" : "Kala", "maths_marks" : 32, "science_marks" : 53 }
{ "name" : "Aruli", "maths_marks" : 78, "science_marks" : 80 }
>
```