1) Create a Database called student


```
S filesystem is strongly recommended with the WiredTiger storage engine
2019-01-16T08:37:46.333+0530 I STORAGE  [initandlisten] **         See http://d
ochub.mongodb.org/core/prodnotes-filesystem
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] ** WARNING: Access contr
ol is not enabled for the database.
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] **         Read and wri
te access to data and configuration is unrestricted.
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] ** WARNING: You are runn
ing this process as the root user, which is not recommended.
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] ** WARNING: This server
is bound to localhost.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **         Remote syste
ms will be unable to connect to this server.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **         Start the se
rver with --bind_ip <address> to specify which IP
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **         addresses it
 should serve responses from, or with --bind_ip_all to
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **         bind to all
interfaces. If this behavior is desired, start the
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **         server with
--bind_ip 127.0.0.1 to disable this warning.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] ** WARNING: /sys/kernel/
mm/transparent_hugepage/enabled is 'always'.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **         We suggest set
ting it to 'never'
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten]
> use student
switched to db student
>
```
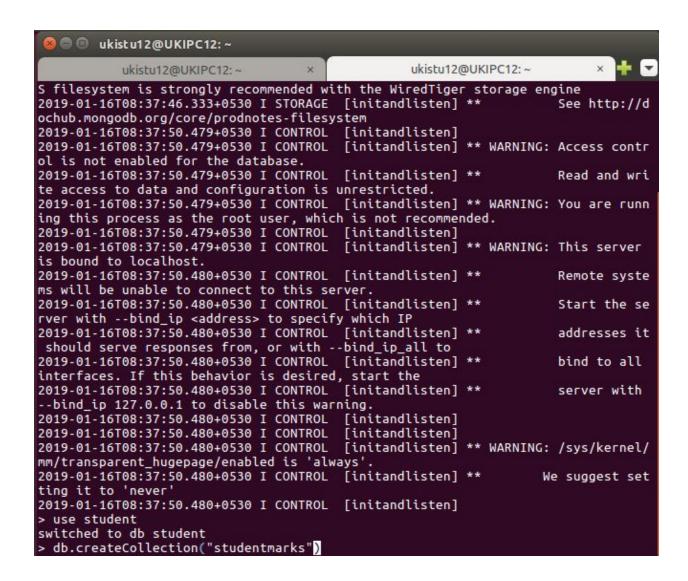
2) Create a collection called studentmarks

```
ukistu12@UKIPC12: ~
ukistu12@UKIPC12: ~                    ukistu12@UKIPC12: ~
S filesystem is strongly recommended with the WiredTiger storage engine
2019-01-16T08:37:46.333+0530 I STORAGE  [initandlisten] **        See http://d
ochub.mongodb.org/core/prodnotes-filesystem
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] ** WARNING: Access contr
ol is not enabled for the database.
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] **        Read and wri
te access to data and configuration is unrestricted.
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] ** WARNING: You are runn
ing this process as the root user, which is not recommended.
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.479+0530 I CONTROL  [initandlisten] ** WARNING: This server
is bound to localhost.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **        Remote syste
ms will be unable to connect to this server.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **        Start the se
rver with --bind_ip <address> to specify which IP
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **        addresses it
 should serve responses from, or with --bind_ip_all to
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **        bind to all
interfaces. If this behavior is desired, start the
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **        server with
--bind_ip 127.0.0.1 to disable this warning.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten]
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] ** WARNING: /sys/kernel/
mm/transparent_hugepage/enabled is 'always'.
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten] **        We suggest set
ting it to 'never'
2019-01-16T08:37:50.480+0530 I CONTROL  [initandlisten]
> use student
switched to db student
> db.createCollection("studentmarks")
```

3) Create the documents listed in above table.

```
⊗ ⊜ ◉   ukistu12@UKIPC12: ~

        ukistu12@UKIPC12: ~          ×          ukistu12@UKIPC12: ~          ×   ➕ ▼
> use student
switched to db student
> db.studentmarks.find().pretty()
{
        "_id" : ObjectId("5c3c56d44242041f69edc625"),
        "name" : "Mala",
        "maths_marks" : 45,
        "english_marks" : 53,
        "science_marks" : 72
}
{
        "_id" : ObjectId("5c3c6129160ab0a172e2caa5"),
        "name" : "Vanu",
        "maths_marks" : 80,
        "english_marks" : 75,
        "sciene_marks" : 85
}
{
        "_id" : ObjectId("5c3c6159160ab0a172e2caa6"),
        "name" : "Kala",
        "maths_marks" : 32,
        "english_marks" : 46,
        "sciene_marks" : 53
}
{
        "_id" : ObjectId("5c3c6182160ab0a172e2caa7"),
        "name" : "Aruli",
        "maths_marks" : 78,
        "english_marks" : 85,
        "sciene_marks" : 80
}
{
        "_id" : ObjectId("5c3c61ab160ab0a172e2caa8"),
        "name" : "Shayu",
        "maths_marks" : 80,
        "english_marks" : 76,
        "sciene_marks" : 65
}
{
        "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "sciene_marks" : 84
}
```

4) Increase the maths marks of Mala by 6 marks

```
        "_id" : ObjectId("5c3c6182160ab0a172e2caa7"),
        "name" : "Aruli",
        "maths_marks" : 78,
        "english_marks" : 85,
        "sciene_marks" : 80
}
{
        "_id" : ObjectId("5c3c61ab160ab0a172e2caa8"),
        "name" : "Shayu",
        "maths_marks" : 80,
        "english_marks" : 76,
        "sciene_marks" : 65
}
{
        "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "sciene_marks" : 84
}
{
        "_id" : ObjectId("5c3c620a160ab0a172e2caaa"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "sciene_marks" : 45
}
{
        "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "sciene_marks" : 56
}
{
        "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "sciene_marks" : 88
}
> db.studentmarks.update({"maths_marks":45},{$set:{"maths_marks":51}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

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

```
                "english_marks" : 85,
                "sciene_marks" : 80
}
{
                "_id" : ObjectId("5c3c61ab160ab0a172e2caa8"),
                "name" : "Shayu",
                "maths_marks" : 80,
                "english_marks" : 76,
                "sciene_marks" : 65
}
{
                "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
                "name" : "Kumaran",
                "maths_marks" : 32,
                "english_marks" : 73,
                "sciene_marks" : 84
}
{
                "_id" : ObjectId("5c3c620a160ab0a172e2caaa"),
                "name" : "Lucky",
                "maths_marks" : 66,
                "english_marks" : 90,
                "sciene_marks" : 45
}
{
                "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
                "name" : "Gva",
                "maths_marks" : 71,
                "english_marks" : 75,
                "sciene_marks" : 56
}
{
                "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
                "name" : "Raam",
                "maths_marks" : 41,
                "english_marks" : 65,
                "sciene_marks" : 88
}
> db.studentmarks.find({"maths_marks":{$gt:50}},{"name":1,_id:0}).pretty()
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
>
```

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

```
        "sciene_marks" : 65
}
{
        "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "sciene_marks" : 84
}
{
        "_id" : ObjectId("5c3c620a160ab0a172e2caaa"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "sciene_marks" : 45
}
{
        "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "sciene_marks" : 56
}
{
        "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "sciene_marks" : 88
}
> db.studentmarks.find({"maths_marks":{$gt:50}},{"name":1,_id:0}).pretty()
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
> db.studentmarks.update((),{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:30:53.024+0530 E QUERY    [thread1] SyntaxError: expected expressi
on, got ')' @(shell):1:24
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:31:05.563+0530 E QUERY    [thread1] SyntaxError: missing name afte
r . operator @(shell):1:64
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true})
WriteResult({ "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
>
```

7) Update Marks_Science=75 to Lucky .

```
                    ukistu12@UKIPC12:~
        ukistu12@UKIPC12:~          ×          ukistu12@UKIPC12:~          ×
{
        "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "sciene_marks" : 84
}
{
        "_id" : ObjectId("5c3c620a160ab0a172e2caaa"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "sciene_marks" : 45
}
{
        "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "sciene_marks" : 56
}
{
        "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "sciene_marks" : 88
}
> db.studentmarks.find({"maths_marks":{$gt:50}},{"name":1,_id:0}).pretty()
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
> db.studentmarks.update((),{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:30:53.024+0530 E QUERY    [thread1] SyntaxError: expected expressi
on, got ')' @(shell):1:24
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:31:05.563+0530 E QUERY    [thread1] SyntaxError: missing name afte
r . operator @(shell):1:64
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true})
WriteResult({ "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
> db.studentmarks.update({"name":"Lucky"},{$set:{"science_marks":75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

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

```
            "english_marks" : 90,
            "sciene_marks" : 45
}
{
            "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
            "name" : "Gva",
            "maths_marks" : 71,
            "english_marks" : 75,
            "sciene_marks" : 56
}
{
            "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
            "name" : "Raam",
            "maths_marks" : 41,
            "english_marks" : 65,
            "sciene_marks" : 88
}
> db.studentmarks.find({"maths_marks":{$gt:50}},{"name":1,_id:0}).pretty()
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
> db.studentmarks.update((),{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:30:53.024+0530 E QUERY    [thread1] SyntaxError: expected expression, got ')' @(shell):1:24
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:31:05.563+0530 E QUERY    [thread1] SyntaxError: missing name after . operator @(shell):1:64
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true})
WriteResult({ "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
> db.studentmarks.update({"name":"Lucky"},{$set:{"science_marks":75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}],{"name":1,_id:0}})
2019-01-16T14:00:45.609+0530 E QUERY    [thread1] SyntaxError: invalid property id @(shell):1:107
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}],{"name":1,_id:0}})
2019-01-16T14:04:06.051+0530 E QUERY    [thread1] SyntaxError: invalid property id @(shell):1:107
> db.studentmarks.find($and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}],{"name":1,_id:0})
2019-01-16T14:09:54.167+0530 E QUERY    [thread1] SyntaxError: missing ) after argument list @(shell):1:25
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"sciene_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Gva" }
>
```

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

```
{
            "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
            "name" : "Gva",
            "maths_marks" : 71,
            "english_marks" : 75,
            "sciene_marks" : 56
}
{
            "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
            "name" : "Raam",
            "maths_marks" : 41,
            "english_marks" : 65,
            "sciene_marks" : 88
}
> db.studentmarks.find({"maths_marks":{$gt:50}},{"name":1,_id:0}).pretty()
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
> db.studentmarks.update((),{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:30:53.024+0530 E QUERY    [thread1] SyntaxError: expected expression, got ')' @(shell):1:24
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:31:05.563+0530 E QUERY    [thread1] SyntaxError: missing name after . operator @(shell):1:64
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true})
WriteResult({ "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
> db.studentmarks.update({"name":"Lucky"},{$set:{"science_marks":75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}],{"name":1,_id:0}})
2019-01-16T14:00:45.609+0530 E QUERY    [thread1] SyntaxError: invalid property id @(shell):1:107
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}],{"name":1,_id:0}})
2019-01-16T14:04:06.051+0530 E QUERY    [thread1] SyntaxError: invalid property id @(shell):1:107
> db.studentmarks.find($and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}],{"name":1,_id:0})
2019-01-16T14:09:54.167+0530 E QUERY    [thread1] SyntaxError: missing ) after argument list @(shell):1:25
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"sciene_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Gva" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50}},{"english_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Kumaran" }
{ "name" : "Raam" }
>
```

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

```
        "maths_marks" : 71,
        "english_marks" : 75,
        "sciene_marks" : 56
}
{
        "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "sciene_marks" : 88
}
> db.studentmarks.find({"maths_marks":{$gt:50}},{"name":1,_id:0}).pretty()
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
> db.studentmarks.update((),{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:30:53.024+0530 E QUERY    [thread1] SyntaxError: expected expression, got ')' @(shell):1:24
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true.})
2019-01-16T10:31:05.563+0530 E QUERY    [thread1] SyntaxError: missing name after . operator @(shell):1:64
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true})
Text Editor  { "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
   studentmarks.update({"name":"Lucky"},{$set:{"science_marks":75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
2019-01-16T14:00:45.609+0530 E QUERY    [thread1] SyntaxError: invalid property id @(shell):1:107
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
2019-01-16T14:04:06.051+0530 E QUERY    [thread1] SyntaxError: invalid property id @(shell):1:107
> db.studentmarks.find($and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
2019-01-16T14:09:54.167+0530 E QUERY    [thread1] SyntaxError: missing ) after argument list @(shell):1:25
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"sciene_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Gva" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50}},{"english_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Kumaran" }
{ "name" : "Raam" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:50}}]},{"name":1,_id:0})
{ "name" : "Kala" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:40}}]},{"name":1,_id:0})
>
```

11) Remove Science column/field for Raam

```
2019-01-16T14:09:54.167+0530 E QUERY    [thread1] SyntaxError: missing ) after argument list @(shell):1:25
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"scienc_marks":{$gt:50}}]},{"name":1,_id:0})
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}},{"sciene_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Gva" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50}},{"english_marks":{$gt:50}}]},{"name":1,_id:0})
{ "name" : "Kumaran" }
{ "name" : "Raam" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:50}}]},{"name":1,_id:0})
{ "name" : "Kala" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:40}}]},{"name":1,_id:0})
> db.studentmarks.update({"name":"Raam"},{$unset{"sciene_marks":88}})
2019-01-16T14:34:47.909+0530 E QUERY    [thread1] SyntaxError: missing : after property id @(shell):1:46
> db.studentmarks.update({"name":"Raam"},{$unset{"sciene_marks":88}})
2019-01-16T14:36:04.729+0530 E QUERY    [thread1] SyntaxError: missing : after property id @(shell):1:46
> db.studentmarks.update({"name":"Raam"},{$unset:{"sciene_marks":88}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert.

```
 "name" : "Gva" }
db.studentmarks.find({$and:[{"maths_marks":{$lt:50}},{"english_marks":{$gt:50}}]},{"name":1,_id:0})
 "name" : "Kumaran" }
 "name" : "Raam" }
db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:50}}]},{"name":1,_id:0})
 "name" : "Kala" }
db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:40}}]},{"name":1,_id:0})
 db.studentmarks.update({"name":"Raam"},{$unset{"sciene_marks":88}})
2019-01-16T14:34:47.909+0530 E QUERY    [thread1] SyntaxError: missing : after property id @(shell):1:46
 db.studentmarks.update({"name":"Raam"},{$unset{"sciene_marks":88}})
2019-01-16T14:36:04.729+0530 E QUERY    [thread1] SyntaxError: missing : after property id @(shell):1:46
 db.studentmarks.update({"name":"Raam"},{$unset:{"sciene_marks":88}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
 db.studentmarks.update({"name":"John"},{"name":"John","maths_marks":87,"english_marks":23},{upsert:true})
WriteResult({
        "nMatched" : 0,
        "nUpserted" : 1,
        "nModified" : 0,
        "_id" : ObjectId("5c3ef82891872c5b7d7521a5")
})
```

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

```
        "name" : "Shayu",
        "maths_marks" : 80,
        "english_marks" : 76,
        "sciene_marks" : 65,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "sciene_marks" : 84,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c620a160ab0a172e2caaa"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "sciene_marks" : 45,
        "Average" : "null",
        "science_marks" : 75
}
{
        "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "sciene_marks" : 56,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3ef82891872c5b7d7521a5"),
        "name" : "John",
        "maths_marks" : 87,
        "english_marks" : 23
}
> db.studentmarks.update({"_id" : ObjectId("5c3ef82891872c5b7d7521a5")},{$rename:{"english_marks":"sciene_marks"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

14) Remove Kumaran's document from collection

```
            "english_marks" : 76,
            "sciene_marks" : 65,
            "Average" : "null"
}
{
            "_id" : ObjectId("5c3c61dc160ab0a172e2caa9"),
            "name" : "Kumaran",
            "maths_marks" : 32,
            "english_marks" : 73,
            "sciene_marks" : 84,
            "Average" : "null"
}
{
            "_id" : ObjectId("5c3c620a160ab0a172e2caaa"),
            "name" : "Lucky",
            "maths_marks" : 66,
            "english_marks" : 90,
            "sciene_marks" : 45,
            "Average" : "null",
            "science_marks" : 75
}
{
            "_id" : ObjectId("5c3c6229160ab0a172e2caab"),
            "name" : "Gva",
            "maths_marks" : 71,
            "english_marks" : 75,
            "sciene_marks" : 56,
            "Average" : "null"
}
{
            "_id" : ObjectId("5c3c625f160ab0a172e2caac"),
            "name" : "Raam",
            "maths_marks" : 41,
            "english_marks" : 65,
            "Average" : "null"
}
{
            "_id" : ObjectId("5c3ef82891872c5b7d7521a5"),
            "name" : "John",
            "maths_marks" : 87,
            "english_marks" : 23
}
> db.studentmarks.update({"_id" : ObjectId("5c3ef82891872c5b7d7521a5")},{$rename:{"english_marks":"sciene_marks"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.studentmarks.remove({"name":"Kumaran"},{})
WriteResult({ "nRemoved" : 1 })
>
```

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


```
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:50}}]},{"name":1,_id:0})
{ "name" : "Kala" }
> db.studentmarks.find({$and:[{"maths_marks":{$lt:40}},{"english_marks":{$lt:40}}]},{"name":1,_id:0})
> db.studentmarks.update({"name":"Raam"},{$unset{"sciene_marks":88}})
2019-01-16T14:34:47.909+0530 E QUERY    [thread1] SyntaxError: missing : after property id @(shell):1:46
> db.studentmarks.update({"name":"Raam"},{$unset{"sciene_marks":88}})
2019-01-16T14:36:04.729+0530 E QUERY    [thread1] SyntaxError: missing : after property id @(shell):1:46
> db.studentmarks.update({"name":"Raam"},{$unset:{"sciene_marks":88}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.studentmarks.update({"name":"John"},{"name":"John","maths_marks":87,"english_marks":23},{upsert:true})
WriteResult({
        "nMatched" : 0,
        "nUpserted" : 1,
        "nModified" : 0,
        "_id" : ObjectId("5c3ef82891872c5b7d7521a5")
})
> db.studentmarks.find({$or:[{"name":"kala"},{"name":"Aruli"}]},{"maths_marks":1,"sciene_marks":1,_id:0})
{ "maths_marks" : 78, "sciene_marks" : 80 }
> db.studentmarks.find({$or:[{"name":"kala"},{"name":"Aruli"}]},{"maths_marks":1,"sciene_marks":1,_id:0}).pretty()
{ "maths_marks" : 78, "sciene_marks" : 80 }
>
```