

1.create a database call student?

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
2019-01-16T10:49:46.230+0530 I CONTROL [initandlisten] ** WARNING: /sys/kern  
el/mm/transparent_hugepage/enabled is 'always'.  
2019-01-16T10:49:46.230+0530 I CONTROL [initandlisten] ** We suggest  
setting it to 'never'  
2019-01-16T10:49:46.230+0530 I CONTROL [initandlisten]  
> use student  
switched to db student  
> db.createCollection("studentmarks")  
{  
  "ok" : 0,  
  "errmsg" : "a collection 'student.studentmarks' already exists",  
  "code" : 48,  
  "codeName" : "NamespaceExists"  
}
```

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
"science_marks" : 45  
{  
  "id" : ObjectId("5c3ed1094204b7d0eb46544e"),  
  "name" : "gva",  
  "maths_marks" : 71,  
  "english_marks" : 75,  
  "science_marks" : 56  
}  
{  
  "id" : ObjectId("5c3ee39b4204b7d0eb46544f"),  
  "name" : "raam",  
  "maths_marks" : 41,  
  "english_marks" : 65,  
  "science_marks" : 88  
}  
> db.studentmarks.update({"name":"mala"},{$inc:{"maths_marks":6}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
  "english_marks" : 75,  
  "science_marks" : 85  
}  
{  
  "id" : ObjectId("5c3ecde04204b7d0eb465449"),  
  "name" : "kala",  
  "maths_marks" : 32,  
  "english_marks" : 46,  
  "science_marks" : 53  
}
```

2.create a collection called studentmarks

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
"science_marks" : 45  
{  
  "_id" : ObjectId("5c3ed1094204b7d0eb46544e"),  
  "name" : "gva",  
  "maths_marks" : 71,  
  "english_marks" : 75,  
  "science_marks" : 56  
}  
  
  "_id" : ObjectId("5c3ee39b4204b7d0eb46544f"),  
  "name" : "raam",  
  "maths_marks" : 41,  
  "english_marks" : 65,  
  "science_marks" : 88  
}  
> db.studentmarks.update({"name":"mala"},{$inc:{"maths_marks":6}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
  "english_marks" : 75,  
  "science_marks" : 85  
}  
  
  "_id" : ObjectId("5c3ecde04204b7d0eb465449"),  
  "name" : "kala",  
  "maths_marks" : 32,  
  "english_marks" : 46,  
  "science_marks" : 53  
}
```

4) Increase the maths marks of Mala by 6 marks?

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
"science_marks" : 45  
{  
  "_id" : ObjectId("5c3ed1094204b7d0eb46544e"),  
  "name" : "gva",  
  "maths_marks" : 71,  
  "english_marks" : 75,  
  "science_marks" : 56  
}  
  
  "_id" : ObjectId("5c3ee39b4204b7d0eb46544f"),  
  "name" : "raam",  
  "maths_marks" : 41,  
  "english_marks" : 65,  
  "science_marks" : 88  
}  
> db.studentmarks.update({"name":"mala"},{$inc:{"maths_marks":6}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
  "english_marks" : 75,  
  "science_marks" : 85  
}  
  
  "_id" : ObjectId("5c3ecde04204b7d0eb465449"),  
  "name" : "kala",  
  "maths_marks" : 32,  
  "english_marks" : 46,  
  "science_marks" : 53  
}
```

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

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
ukistu19@ukipc19: ~  
> db.studentmarks.find({"maths_marks":{$gt:50}}).pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
  "english_marks" : 75,  
  "science_marks" : 85  
}  
{  
  "_id" : ObjectId("5c3ece454204b7d0eb46544a"),  
  "name" : "aruli",  
  "maths_marks" : 78,  
  "english_marks" : 85,  
  "science_marks" : 80  
}  
{  
  "_id" : ObjectId("5c3eced04204b7d0eb46544b"),  
  "name" : "shayu",  
  "maths_marks" : 80,  
  "english_marks" : 76,  
  "science_marks" : 65  
}  
{  
  "_id" : ObjectId("5c3ed0994204b7d0eb46544d"),  
  "name" : "lucky",  
  "maths_marks" : 66,  
  "english_marks" : 90,  
  "science_marks" : 45  
}  
{  
  "_id" : ObjectId("5c3ed1094204b7d0eb46544e"),  
  "name" : "gva",  
}
```

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

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
ukistu19@ukipc19: ~  
"science_marks" : 56  
> db.studentmarks.update({$set:{average:""}},{multi:true})  
2019-01-16T13:33:34.340+0530 E QUERY [thread1] SyntaxError: missing ) after argument list @(shell):1:25  
> db.studentmarks.update({"name":"lucky"},{$set:{"science_marks":75}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
  "english_marks" : 75,  
  "science_marks" : 85  
}  
{  
  "_id" : ObjectId("5c3ecde04204b7d0eb465449"),  
  "name" : "kala",  
  "maths_marks" : 32,  
  "english_marks" : 46,  
  "science_marks" : 53  
}  
{  
  "_id" : ObjectId("5c3ece454204b7d0eb46544a"),  
  "name" : "aruli",  
  "maths_marks" : 78,  
  "english_marks" : 85,  
  "science_marks" : 80  
}  
{  
  "_id" : ObjectId("5c3eced04204b7d0eb46544b"),  
  "name" : "shayu",  
  "maths_marks" : 80,  
  "english_marks" : 76,  
}
```

## Update Marks\_Science=75 to Lucky

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
"science_marks" : 56  
> db.studentmarks.update({$set:{average:""},{multi:true}})  
2019-01-16T13:33:34.340+0530 E QUERY [thread1] SyntaxError: missing ) after argument list @(shell):1:25  
> db.studentmarks.update({"name":"lucky"},{$set:{science_marks:75}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
  "english_marks" : 75,  
  "science_marks" : 85  
}  
{  
  "_id" : ObjectId("5c3ecde04204b7d0eb465449"),  
  "name" : "kala",  
  "maths_marks" : 32,  
  "english_marks" : 46,  
  "science_marks" : 53  
}  
{  
  "_id" : ObjectId("5c3ece454204b7d0eb46544a"),  
  "name" : "aruli",  
  "maths_marks" : 78,  
  "english_marks" : 85,  
  "science_marks" : 80  
}  
{  
  "_id" : ObjectId("5c3eced04204b7d0eb46544b"),  
  "name" : "shayu",  
  "maths_marks" : 80,  
  "english_marks" : 76,  
}
```

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

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50},"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50},"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50},"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50},"english_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).pretty is not a function :  
@(shell):1:1  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50},"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
{  
  "name" : "shayu"  
}  
{  
  "name" : "lucky"  
}  
{  
  "name" : "gva"  
}  
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40},"science_marks":{$lt:40}}]},{"name":1,_id:0}).pretty()  
{  
  "name" : "kala"  
}  
{  
  "name" : "kumaran"  
}  
> db.studentmarks.update({"name":"raam"},{$set:{science_marks:88}})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({"name":"raam"},{$set:{science_marks:88}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```

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

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name": "mala"  
}  
{  
  "name": "vanu"  
}  
{  
  "name": "aruli"  
}  
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50},"english_marks":{$gt:50}]}),{"name":1,_id:0}).prett()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).prett is not a function :  
@(shell):1:1  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name": "mala"  
}  
{  
  "name": "vanu"  
}  
{  
  "name": "aruli"  
}  
{  
  "name": "shayu"  
}  
{  
  "name": "lucky"  
}  
{  
  "name": "gva"  
}  
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40}},{"science_marks":{$lt:40}}]},{"name":1,_id:0}).pretty()  
{  
  "name": "kala"  
}  
{  
  "name": "kumaran"  
}  
> db.studentmarks.update({"name":"raam"},{$unset:["science_marks":88]})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({"name":"raam"},{$unset:["science_marks":88]})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```

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

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name": "mala"  
}  
{  
  "name": "vanu"  
}  
{  
  "name": "aruli"  
}  
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50},"english_marks":{$gt:50}]}),{"name":1,_id:0}).prett()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).prett is not a function :  
@(shell):1:1  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name": "mala"  
}  
{  
  "name": "vanu"  
}  
{  
  "name": "aruli"  
}  
{  
  "name": "shayu"  
}  
{  
  "name": "lucky"  
}  
{  
  "name": "gva"  
}  
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40}},{"science_marks":{$lt:40}}]},{"name":1,_id:0}).pretty()  
{  
  "name": "kala"  
}  
{  
  "name": "kumaran"  
}  
> db.studentmarks.update({"name":"raam"},{$unset:["science_marks":88]})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({"name":"raam"},{$unset:["science_marks":88]})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```

## 11) Remove Science column/field for Raam

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50},'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50}},{'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50}},{'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
{  
  "name" : "mala"  
  "name" : "vanu"  
  "name" : "aruli"  
}  
> db.studentmarks.find({'$and':{'maths_marks':{'$lt':50}},{'english_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).prett is not a function :  
@(shell):1:1  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50}},{'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
{  
  "name" : "mala"  
  "name" : "vanu"  
  "name" : "aruli"  
  "name" : "shayu"  
  "name" : "lucky"  
  "name" : "gva"  
}  
> db.studentmarks.find({'$or':{'maths_marks':{'$lt':40}},{'science_marks':{'$lt':40}}},{'name':1,_id:0}).pretty()  
{  
  "name" : "kala"  
  "name" : "kumaran"  
}  
> db.studentmarks.update({'name':"raam"},{$unset{'science_marks':88}})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({'name':"raam"},{$unset{'science_marks':88}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({'name':"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```

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

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50},'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50}},{'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50}},{'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
{  
  "name" : "mala"  
  "name" : "vanu"  
  "name" : "aruli"  
}  
> db.studentmarks.find({'$and':{'maths_marks':{'$lt':50}},{'english_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).prett is not a function :  
@(shell):1:1  
> db.studentmarks.find({'$and':{'maths_marks':{'$gt':50}},{'english_marks':{'$gt':50}},{'science_marks':{'$gt':50}}},{'name':1,_id:0}).pretty()  
{  
  "name" : "mala"  
  "name" : "vanu"  
  "name" : "aruli"  
  "name" : "shayu"  
  "name" : "lucky"  
  "name" : "gva"  
}  
> db.studentmarks.find({'$or':{'maths_marks':{'$lt':40}},{'science_marks':{'$lt':40}}},{'name':1,_id:0}).pretty()  
{  
  "name" : "kala"  
  "name" : "kumaran"  
}  
> db.studentmarks.update({'name':"raam"},{$unset{'science_marks':88}})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({'name':"raam"},{$unset{'science_marks':88}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({'name':"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```



### 13) Rename the english\_marks column/field for John to science\_marks

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
ukistu19@ukipc19: ~  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50},"english_marks":{$gt:50}]}),{"name":1,_id:0}).pretty()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).pretty is not a function :  
@(shell):1:1  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
{  
  "name" : "shayu"  
}  
{  
  "name" : "lucky"  
}  
{  
  "name" : "gva"  
}  
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40}},{"science_marks":{$lt:40}}]},{"name":1,_id:0}).pretty()  
{  
  "name" : "kala"  
}  
{  
  "name" : "kumaran"  
}  
> db.studentmarks.update({"name":"raam"},{$set:"science_marks":88})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({"name":"raam"},{$set:{science_marks:88}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,
```

#### 14) Remove Kumaran's document from collection

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50},"english_marks":{$gt:50}}]},"name":1,_id:0}).prett()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).prett is not a function :  
@(shell):1:1  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
{  
  "name" : "shayu"  
}  
{  
  "name" : "lucky"  
}  
{  
  "name" : "gva"  
}  
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40}},{"science_marks":{$lt:40}}]},"name":1,_id:0}).pretty()  
{  
  "name" : "kala"  
}  
{  
  "name" : "kumaran"  
}  
> db.studentmarks.update({"name":"raam"},{$unset{"science_marks":88}})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({"name":"raam"},{$unset{"science_marks":88}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```

#### 15) find kala's or aruli's math\_marks and science\_marks?

```
ukistu19@ukipc19: ~  
File Edit View Search Terminal Tabs Help  
ukistu19@ukipc19: ~  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
2019-01-16T13:42:22.460+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:104  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
2019-01-16T13:44:24.319+0530 E QUERY [thread1] SyntaxError: missing ] after element list @(shell):1:106  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
> db.studentmarks.find({$and:[{"maths_marks":{$lt:50},"english_marks":{$gt:50}}]},"name":1,_id:0}).prett()  
2019-01-16T14:46:34.488+0530 E QUERY [thread1] TypeError: db.studentmarks.find(...).prett is not a function :  
@(shell):1:1  
> db.studentmarks.find({$and:[{"maths_marks":{$gt:50},"english_marks":{$gt:50}},{"science_marks":{$gt:50}}]},"name":1,_id:0}).pretty()  
{  
  "name" : "mala"  
}  
{  
  "name" : "vanu"  
}  
{  
  "name" : "aruli"  
}  
{  
  "name" : "shayu"  
}  
{  
  "name" : "lucky"  
}  
{  
  "name" : "gva"  
}  
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40}},{"science_marks":{$lt:40}}]},"name":1,_id:0}).pretty()  
{  
  "name" : "kala"  
}  
{  
  "name" : "kumaran"  
}  
> db.studentmarks.update({"name":"raam"},{$unset{"science_marks":88}})  
2019-01-16T14:52:30.811+0530 E QUERY [thread1] SyntaxError: missing : after property id @(shell):1:46  
> db.studentmarks.update({"name":"raam"},{$unset{"science_marks":88}})  
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })  
> db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})  
WriteResult({ "nInserted" : 1 })  
> db.studentmarks.find().pretty()  
{  
  "_id" : ObjectId("5c3eccbc4204b7d0eb465447"),  
  "name" : "mala",  
  "maths_marks" : 51,  
  "english_marks" : 53,  
  "science_marks" : 72  
}  
{  
  "_id" : ObjectId("5c3ecd154204b7d0eb465448"),  
  "name" : "vanu",  
  "maths_marks" : 80,  
}
```



