

mongodbex2.pdf - Google Drive - Google Chrome

Uki 6 Coding Accelerator | x | mongodbex2.pdf - Google | x | node.js exercise 1 process | x | +

drive.google.com/file/d/1vyjCq1dXbTUZ5Ffc-uMMLoR25Fzu1PFj/view

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## MongoDB Exercise 2

name	maths_marks	english_marks	science_marks
Mala	45	53	72
Vanu	80	75	85
Kala	32	46	53
Aruli	78	85	80
Shayu	80	76	65
Kumaran	32	73	84
Lucky	66	90	45
Gva	71	75	56
Raam	41	65	88

1) Create a Database called student

Atom

1q.js — node mongo2 — ~/Desktop — Atom

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   console.log("Database created!");
7   db.close();
8 });
9
```

nodejs/nodes exercise2/node mongo2/1q.js 9:1

LF UTF-8 Babel 0 files 1 update



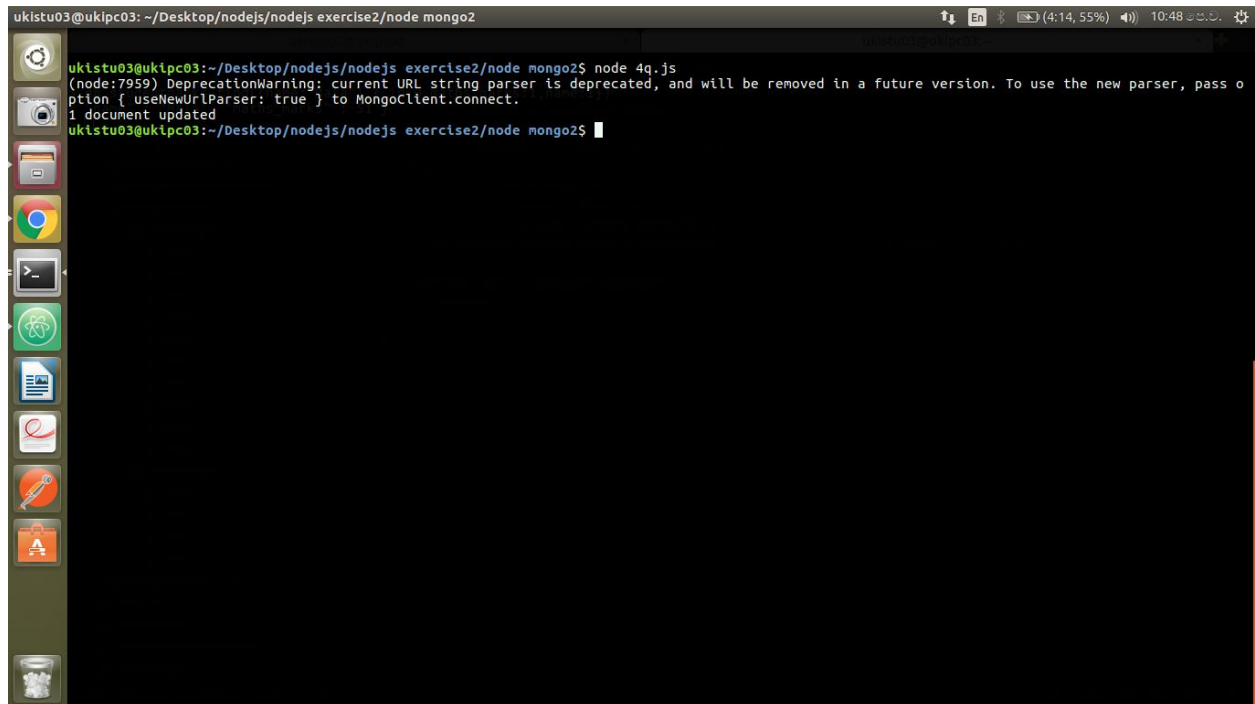
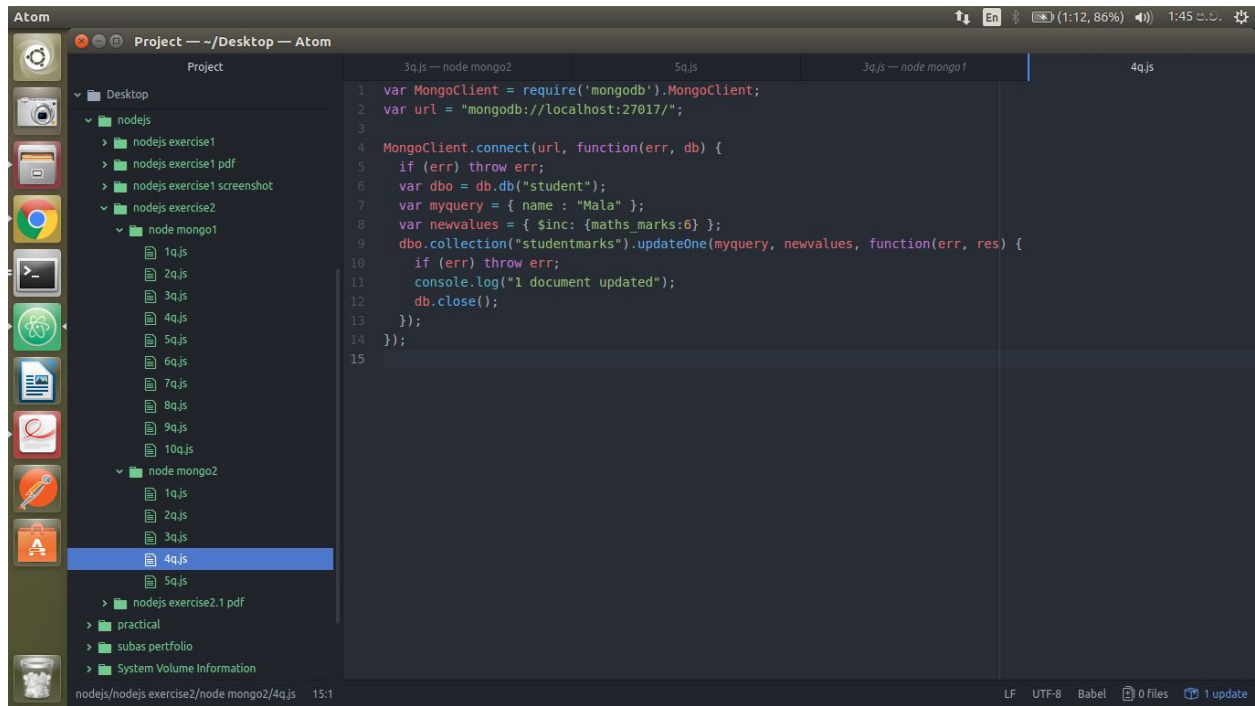
```
ukistu03@uklpc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 2q.js
(node:5691) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
collection created!
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ 
{"id": "5e10cb5e81d4a138aef32879", "name": "Kumaran", "maths_marks": 32, "english_marks": 73, "science_marks": 84, "average": false},
{"id": "5e10cb5e81d4a138aef3287a", "name": "Lucky", "maths_marks": 66, "english_marks": 90, "science_marks": 45, "average": false},
{"id": "5e10cb5e81d4a138aef3287b", "name": "Gva", "maths_marks": 71, "english_marks": 75, "science_marks": 56, "average": false},
{"id": "5e10cb5e81d4a138aef3287c", "name": "Raam", "maths_marks": 41, "english_marks": 65, "science_marks": 88, "average": false}
db.studentmarks.drop()
true
db.studentmarks.find()
db.studentmarks.find()
db.dropDatabase()
2020-01-30T10:09:02.024+0530 c QUERY [thread1] TypeError: db.dropDatabase is not a function:
{shell}:1:11
db.dropDatabase()
  ^
    dropped: 'student', 'ok': 1 }
show dbs
admin 0.000GB
apple 0.000GB
kirr1s2 0.000GB
local 0.000GB
movies 0.000GB
music 0.000GB
mydb 0.000GB
myshow 0.000GB
nodeauthen 0.000GB
notable 0.000GB
person 0.000GB
rpg1 0.000GB
schemasfinder 0.000GB
test 0.000GB
tutorialstous 0.000GB
uk13 0.000GB
uk14 0.000GB
-[]
```

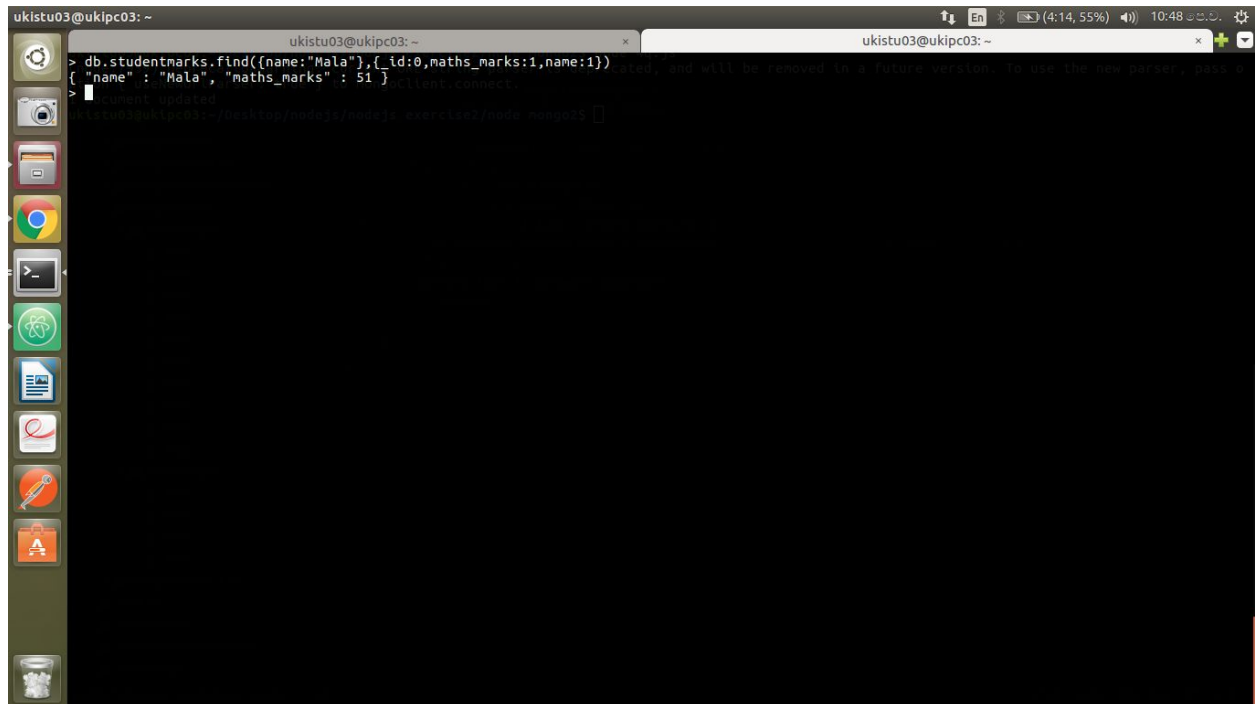
3) Create the documents listed in above table.

```
Atom
3q.js -- ~/Desktop -- Atom
Project
  Desktop
    nodejs
      nodejs exercise1
      nodejs exercise1.pdf
      nodejs exercise1 screenshot
      nodejs exercise2
        node mongo1
          1q.js
          2q.js
          3q.js
          4q.js
          5q.js
          6q.js
          7q.js
          8q.js
          9q.js
          10q.js
        node mongo2
          1q.js
          2q.js
          3q.js
          4q.js
      nodejs exercise2.1.pdf
    practical
    subas portfolio
    System Volume Information
    uki web page
nodejs/nodejs exercise2/node mongo2/3q.js 16:66
LF UTF-8 Babel 0 files 1 update

3q.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   var myobj = [
8     {name:"Mala",maths_marks:45,english_marks:53,science_marks:72},
9     {name:"Vanu",maths_marks:80,english_marks:75,science_marks:85},
10    {name:"Kala",maths_marks:32,english_marks:46,science_marks:53},
11    {name:"Aruli",maths_marks:78,english_marks:85,science_marks:80},
12    {name:"Shayu",maths_marks:80,english_marks:76,science_marks:65},
13    {name:"Kumaran",maths_marks:32,english_marks:73,science_marks:84},
14    {name:"Lucky",maths_marks:66,english_marks:90,science_marks:45},
15    {name:"Gva",maths_marks:71,english_marks:65,science_marks:56},
16    {name:"Raam",maths_marks:41,english_marks:65,science_marks:88}
17  ];
18  dbo.collection("studentmarks").insertMany(myobj, function(err, res) {
19    if (err) throw err;
20    console.log("Number of documents inserted: " + res.insertedCount);
21    db.close();
22  });
23 })
24
```



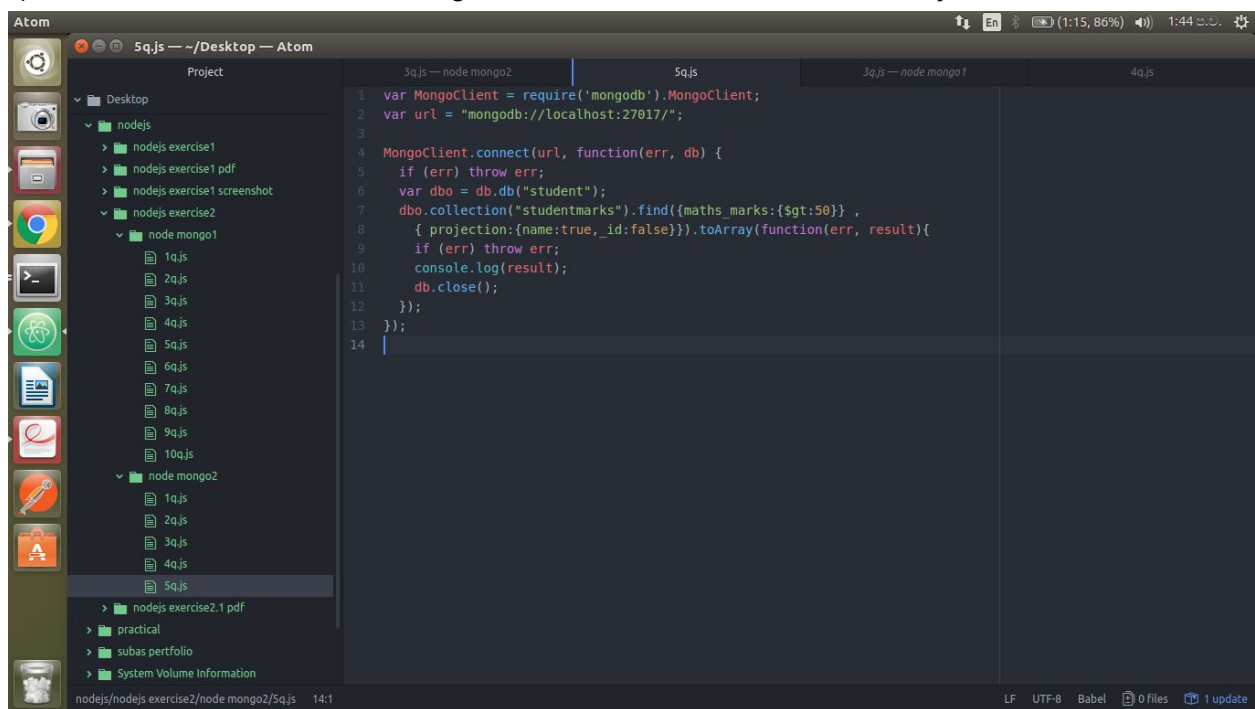




A terminal window on a Linux desktop environment. The prompt is 'ukistu03@ukipc03: ~'. The user has entered a MongoDB command: `db.studentmarks.find((name:"Mala"),{ _id:0,maths_marks:1,name:1})`. The output shows a document: `{ "name" : "Mala", "maths_marks" : 51 }`. Below the output, there is a message: 'document updated' and a path: `nodejs@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$`. The desktop background is dark, and the left sidebar shows various application icons.

```
ukistu03@ukipc03: ~
> db.studentmarks.find((name:"Mala"),{ _id:0,maths_marks:1,name:1})
{ "name" : "Mala", "maths_marks" : 51 }
document updated
nodejs@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

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



The Atom text editor interface. The left sidebar shows a file explorer with a project structure. The main editor area shows a file named '5q.js' with the following JavaScript code: `var MongoClient = require('mongodb').MongoClient; var url = "mongodb://localhost:27017/"; MongoClient.connect(url, function(err, db) { if (err) throw err; var dbo = db.db("student"); dbo.collection("studentmarks").find({maths_marks:{>:50}} , { projection:{name:true,_id:false}}).toArray(function(err, result){ if (err) throw err; console.log(result); db.close(); }); });`. The status bar at the bottom shows 'nodejs/nodejs exercise2/node mongo2/5q.js 14:1' and 'LF UTF-8 Babel 0 files 1 update'.

```
Atom
Project
Desktop
  nodejs
    nodejs exercise1
    nodejs exercise1.pdf
    nodejs exercise1 screenshot
    nodejs exercise2
      node mongo1
        1q.js
        2q.js
        3q.js
        4q.js
        5q.js
        6q.js
        7q.js
        8q.js
        9q.js
        10q.js
      node mongo2
        1q.js
        2q.js
        3q.js
        4q.js
        5q.js
    nodejs exercise2.1.pdf
    practical
    subas portfolio
    System Volume Information

5q.js — node mongo2
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   dbo.collection("studentmarks").find({maths_marks:{>:50}} ,
8     { projection:{name:true,_id:false}}).toArray(function(err, result){
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14
```

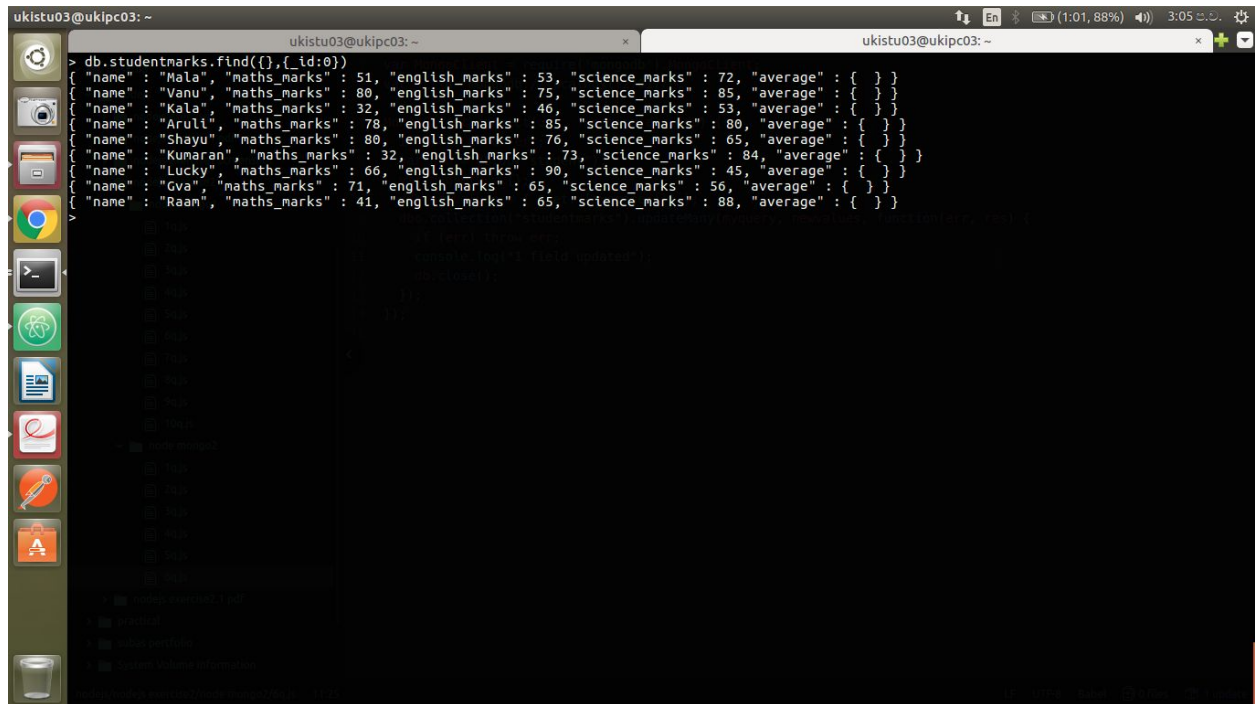
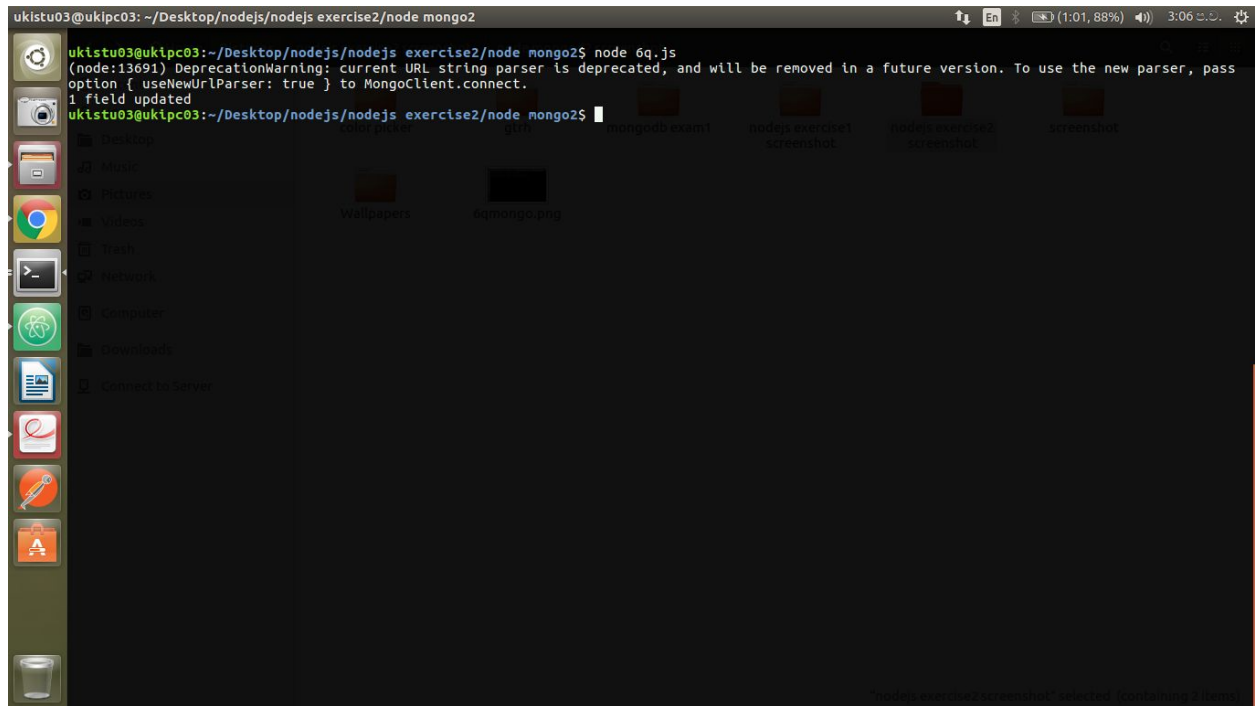


```
ukistu03@uklpc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 5q.js
(node:8857) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { name: 'Mala' },
  { name: 'Vanu' },
  { name: 'Aruli' },
  { name: 'Shayu' },
  { name: 'Lucky' },
  { name: 'Gva' } ]
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

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

```
Project -- /Desktop -- Atom
Project
  Desktop
    2q.js
    3q.js
    4q.js
    5q.js
    6q.js
    7q.js
    8q.js
    9q.js
    10q.js
    node mongo2
      1q.js
      2q.js
      3q.js
      4q.js
      5q.js
      6q.js
      7q.js
      8q.js
      9q.js
      10q.js
      11q.js
      12q.js
      13q.js
      14q.js
      15q.js
      node mongo2.zip
    nodejs exercise2.1 pdf
    nodejs exercise2.2 pdf
  nodejs/nodejs exercise2/node mongo2/6q.js 13:1
  LF UTF-8 Babel 0 files 1 update

6q.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   dbo.collection("studentmarks").aggregate([{"$addFields":{average:0}}, newvalues, function(err, res) {
8     if (err) throw err;
9     console.log("1 field updated");
10    db.close();
11  });
12 });
13
```



7) Update Marks\_Science=75 to Lucky .



7q.js -- ~/Desktop -- Atom

Project

- Desktop
  - nodejs
    - nodejs exercise1
      - nodejs exercise1 pdf
      - nodejs exercise1 screenshot
    - nodejs exercise2
      - node mongo1
        - 1q.js
        - 2q.js
        - 3q.js
        - 4q.js
        - 5q.js
        - 6q.js
        - 7q.js
        - 8q.js
        - 9q.js
        - 10q.js
      - node mongo2
        - 1q.js
        - 2q.js
        - 3q.js
        - 4q.js
        - 5q.js
        - 6q.js
        - 7q.js
    - nodejs exercise2.1 pdf
    - practical
    - subas portfolio

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   var myquery = { name : "Lucky" };
8   var newvalues = { $set: {science_marks:75} };
9   dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
10     if (err) throw err;
11     console.log("1 document updated");
12     db.close();
13   });
14 });
15
```

nodejs/nodejs exercise2/node mongo2/7q.js 8:25

LF UTF-8 Babel 0 files 1 update

ukistu03@ukipc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2

```
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 7q.js
(node:13994) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
1 document updated
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

```
ukistu03@ukipc03: ~  
> db.studentmarks.find((name:"Lucky"),{_id:0})  
{  
  "name" : "Lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "average" : { }  
}
```

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

```
8q.js -- ~/Desktop -- Atom  
Project  
  Desktop  
  nodejs  
    nodejs exercise1  
    nodejs exercise1 pdf  
    nodejs exercise1 screenshot  
    nodejs exercise2  
      node mongo1  
        1q.js  
        2q.js  
        3q.js  
        4q.js  
        5q.js  
        6q.js  
        7q.js  
        8q.js  
        9q.js  
        10q.js  
      node mongo2  
        1q.js  
        2q.js  
        3q.js  
        4q.js  
        5q.js  
        6q.js  
        7q.js  
        8q.js  
    nodejs exercise2.1 pdf  
    practical  
nodejs/nodejs exercise2/node mongo2/8q.js 15:1  
6q.js 7q.js 8q.js 9q.js  
1 var MongoClient = require('mongodb').MongoClient;  
2 var url = "mongodb://localhost:27017/";  
3  
4 MongoClient.connect(url, function(err, db) {  
5   if (err) throw err;  
6   var dbo = db.db("student");  
7   dbo.collection("studentmarks").find({$and:[{maths_marks:{>50}},  
8     {science_marks:{>50}},{english_marks:{>50}} ]} ,  
9     { projection:{name:true,_id:false}}).toArray(function(err, result){  
10    if (err) throw err;  
11    console.log(result);  
12    db.close();  
13  });  
14 });  
15
```

```
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2
(node:14156) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
[ { name: 'Mala' },
  { name: 'Vanu' },
  { name: 'Aruli' },
  { name: 'Shayu' },
  { name: 'Lucky' },
  { name: 'Gva' } ]
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

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

```
9q.js -- ~/Desktop -- Atom
Project
  Desktop
    nodejs
      nodejs exercise1
      nodejs exercise1.pdf
      nodejs exercise1 screenshot
      nodejs exercise2
        node mongo1
          1q.js
          2q.js
          3q.js
          4q.js
          5q.js
          6q.js
          7q.js
          8q.js
          9q.js
          10q.js
        node mongo2
          1q.js
          2q.js
          3q.js
          4q.js
          5q.js
          6q.js
          7q.js
          8q.js
          9q.js
      nodejs exercise2.1.pdf
nodejs/nodejs exercise2/node mongo2/9q.js 15:1
LF UTF-8 Babel 0 files 1 update

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   dbo.collection("studentmarks").find({$and:[{maths_marks:{$lt:50}},
8     {english_marks:{$gt:50}} ]} ,
9     { projection:{name:true,_id:false}}).toArray(function(err, result){
10    if (err) throw err;
11    console.log(result);
12    db.close();
13  });
14 });
15
```

```
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 9q.js
(node:14267) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
[ { name: 'Kunaran' }, { name: 'Raam' } ]
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

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

```
10q.js -- ~/Desktop -- Atom
Project
  Desktop
    nodejs
      nodejs exercise1
      nodejs exercise1 pdf
      nodejs exercise1 screenshot
      nodejs exercise2
        node mongo1
          1q.js
          2q.js
          3q.js
          4q.js
          5q.js
          6q.js
          7q.js
          8q.js
          9q.js
          10q.js
        node mongo2
          1q.js
          2q.js
          3q.js
          4q.js
          5q.js
          6q.js
          7q.js
          8q.js
          9q.js
          10q.js
nodejs/nodejs exercise2/node mongo2/10q.js 15:1
LF UTF-8 Babel 0 files 1 update

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   dbo.collection("studentmarks").find({$and:[{maths_marks:{$lt:40}},
8     {science_marks:{$lt:40}} ]} ,
9     { projection:{name:true,id:false}}).toArray(function(err, result){
10    if (err) throw err;
11    console.log(result);
12    db.close();
13  });
14 });
15
```

```
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 10q.js
(node:14491) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
[]
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

## 11) Remove Science column/field for Raam

```
Project -- /Desktop -- Atom

Project
  Desktop
    2q.js
    3q.js
    4q.js
    5q.js
    6q.js
    7q.js
    8q.js
    9q.js
    10q.js
    node mongo2
      1q.js
      2q.js
      3q.js
      4q.js
      5q.js
      6q.js
      7q.js
      8q.js
      9q.js
      10q.js
      11q.js
      12q.js
      13q.js
      14q.js
      15q.js
      node mongo2.zip
    nodejs exercise2.1.pdf
    nodejs exercise2.2.pdf

nodejs/nodejs exercise2/node mongo2/11q.js 15:1
LF UTF-8 Babel 0 Files 1 update
```

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("studentmarks");
7   var myquery = {name:"Raam"};
8   var newvalues = {$unset:{science_marks:88}};
9   dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
10    if (err) throw err;
11    console.log("1 field delete");
12    db.close();
13  });
14 });
15
```

```
ukistu03@ukipc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 10q.js
(node:14491) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
[]
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

```
ukistu03@ukipc03: ~
File Edit View Search Terminal Tabs Help
ukistu03@ukipc03: ~
ukistu03@ukipc03: ~
> db.studentmarks.find((name:"Raam"),{id:0})
({ "name" : "Raam", "maths_marks" : 41, "english_marks" : 65, "average" : { } })
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 5q.js
(node:16284) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
{
  name: 'Mala',
  name: 'Vanu',
  name: 'Aruli',
  name: 'Shayu',
  name: 'Lucky',
  name: 'Gva',
  name: 'John'
}
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ clear
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 8q.js
(node:16385) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
{
  name: 'Mala',
  name: 'Vanu',
  name: 'Aruli',
  name: 'Shayu',
  name: 'Lucky',
  name: 'Gva'
}
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 15q.js
(node:16572) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
[ { name: 'Mala', maths_marks: 32, science_marks: 83 },
  { name: 'Aruli', maths_marks: 78, science_marks: 80 } ]
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 11.js
(node:16692) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
1 Field delete
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

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



12q.js -- ~/Desktop -- Atom

Project

- Desktop
  - nodejs exercise2
    - node mongo1
      - 1q.js
      - 2q.js
      - 3q.js
      - 4q.js
      - 5q.js
      - 6q.js
      - 7q.js
      - 8q.js
      - 9q.js
      - 10q.js
    - node mongo2
      - 1q.js
      - 2q.js
      - 3q.js
      - 4q.js
      - 5q.js
      - 6q.js
      - 7q.js
      - 8q.js
      - 9q.js
      - 10q.js
      - 11.js
      - 12q.js
  - nodejs exercise2.1 pdf
  - practical

nodejs/exercise2/node mongo2/12q.js 8:65

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   var myobj = {name:"John",maths_marks:87,english_marks:23};
8   dbo.collection("studentmarks").insertOne(myobj,{upsert:false}, function(err, res) {
9     if (err) throw err;
10    console.log("1 document upserted");
11    db.close();
12  });
13 });
14
```

ukistu03@uklpc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2

```
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 12q.js
(node:15889) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
1 document upserted
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

name	maths_marks	english_marks	science_marks	average
Arul	78	85	80	
Shayu	88	76	65	
Rumaran	32	73	84	
Lucky	68	80	75	
Gva	71	85	56	
Ram	41	65	88	
John	87	23		

```
ukistu03@ukipc03: ~  
ukistu03@ukipc03: ~  
ukistu03@ukipc03: ~  
> db.studentmarks.find({}, { _id: 0 })  
{ "name" : "Mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "average" : { } }  
{ "name" : "Vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "average" : { } }  
{ "name" : "Kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53, "average" : { } }  
{ "name" : "Aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80, "average" : { } }  
{ "name" : "Shayun", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65, "average" : { } }  
{ "name" : "Kumaran", "maths_marks" : 32, "english_marks" : 73, "science_marks" : 84, "average" : { } }  
{ "name" : "Lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "average" : { } }  
{ "name" : "Gva", "maths_marks" : 71, "english_marks" : 65, "science_marks" : 56, "average" : { } }  
{ "name" : "Raam", "maths_marks" : 41, "english_marks" : 65, "science_marks" : 88, "average" : { } }  
{ "name" : "John", "maths_marks" : 87, "english_marks" : 23 }
```

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

```
12q.js -- ~/Desktop -- Atom  
Project  
  Desktop  
    nodejs exercise2  
      node mongo1  
        1q.js  
        2q.js  
        3q.js  
        4q.js  
        5q.js  
        6q.js  
        7q.js  
        8q.js  
        9q.js  
        10q.js  
      node mongo2  
        1q.js  
        2q.js  
        3q.js  
        4q.js  
        5q.js  
        6q.js  
        7q.js  
        8q.js  
        9q.js  
        10q.js  
        11.js  
        12q.js  
        13q.js  
    nodejs exercise2.1 pdf  
nodejs/nodejs exercise2/node mongo2/12q.js 14:1  
LF UTF-8 Babel 0 files 1 update  
1  
2 var MongoClient = require('mongodb').MongoClient;  
3 var url = "mongodb://localhost:27017/";  
4  
5 MongoClient.connect(url, function(err, db) {  
6   if (err) throw err;  
7   var dbo = db.db("student");  
8   var myobj = {name:"John",maths_marks:87,english_marks:23};  
9   dbo.collection("studentmarks").insertOne(myobj,{upsert:false}, function(err, res) {  
10    if (err) throw err;  
11    console.log("1 document upserted");  
12    db.close();  
13  });  
14 }
```

```
ukistu03@ukipc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 13q.js
(node:16185) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewURLParser: true } to MongoClient.connect.
1 document updated
ukistu03@ukipc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$

db.studentmarks.find({}, { _id: 0 })
{ 'name': 'Mala', 'maths_marks': 51, 'english_marks': 53, 'science_marks': 72, 'average': { } }
{ 'name': 'Vanu', 'maths_marks': 80, 'english_marks': 75, 'science_marks': 85, 'average': { } }
{ 'name': 'Kala', 'maths_marks': 32, 'english_marks': 46, 'science_marks': 53, 'average': { } }
{ 'name': 'Aruli', 'maths_marks': 78, 'english_marks': 85, 'science_marks': 80, 'average': { } }
{ 'name': 'Shayu', 'maths_marks': 80, 'english_marks': 76, 'science_marks': 65, 'average': { } }
{ 'name': 'Kumaran', 'maths_marks': 32, 'english_marks': 73, 'science_marks': 84, 'average': { } }
{ 'name': 'Lucky', 'maths_marks': 66, 'english_marks': 90, 'science_marks': 75, 'average': { } }
{ 'name': 'Gva', 'maths_marks': 71, 'english_marks': 65, 'science_marks': 56, 'average': { } }
{ 'name': 'Raam', 'maths_marks': 41, 'english_marks': 65, 'science_marks': 88, 'average': { } }
{ 'name': 'John', 'maths_marks': 87, 'english_marks': 23 }

db.studentmarks.find({}, { _id: 0 })
{ 'name': 'Mala', 'maths_marks': 51, 'english_marks': 53, 'science_marks': 72, 'average': { } }
{ 'name': 'Vanu', 'maths_marks': 80, 'english_marks': 75, 'science_marks': 85, 'average': { } }
{ 'name': 'Kala', 'maths_marks': 32, 'english_marks': 46, 'science_marks': 53, 'average': { } }
{ 'name': 'Aruli', 'maths_marks': 78, 'english_marks': 85, 'science_marks': 80, 'average': { } }
{ 'name': 'Shayu', 'maths_marks': 80, 'english_marks': 76, 'science_marks': 65, 'average': { } }
{ 'name': 'Kumaran', 'maths_marks': 32, 'english_marks': 73, 'science_marks': 84, 'average': { } }
{ 'name': 'Lucky', 'maths_marks': 66, 'english_marks': 90, 'science_marks': 75, 'average': { } }
{ 'name': 'Gva', 'maths_marks': 71, 'english_marks': 65, 'science_marks': 56, 'average': { } }
{ 'name': 'Raam', 'maths_marks': 41, 'english_marks': 65, 'science_marks': 88, 'average': { } }
{ 'name': 'John', 'maths_marks': 87, 'english_marks': 23 }

db.studentmarks.find({}, { _id: 0 })
{ 'name': 'Mala', 'maths_marks': 51, 'english_marks': 53, 'science_marks': 72, 'average': { } }
{ 'name': 'Vanu', 'maths_marks': 80, 'english_marks': 75, 'science_marks': 85, 'average': { } }
{ 'name': 'Kala', 'maths_marks': 32, 'english_marks': 46, 'science_marks': 53, 'average': { } }
{ 'name': 'Aruli', 'maths_marks': 78, 'english_marks': 85, 'science_marks': 80, 'average': { } }
{ 'name': 'Shayu', 'maths_marks': 80, 'english_marks': 76, 'science_marks': 65, 'average': { } }
{ 'name': 'Lucky', 'maths_marks': 66, 'english_marks': 90, 'science_marks': 75, 'average': { } }
{ 'name': 'Gva', 'maths_marks': 71, 'english_marks': 65, 'science_marks': 56, 'average': { } }
{ 'name': 'Raam', 'maths_marks': 41, 'english_marks': 65, 'science_marks': 88, 'average': { } }
{ 'name': 'John', 'maths_marks': 87, 'english_marks': 23 }

ukistu03@ukipc03: ~
ukistu03@ukipc03: ~
> db.studentmarks.find({}, { _id: 0 })
{ 'name': 'Mala', 'maths_marks': 51, 'english_marks': 53, 'science_marks': 72, 'average': { } }
{ 'name': 'Vanu', 'maths_marks': 80, 'english_marks': 75, 'science_marks': 85, 'average': { } }
{ 'name': 'Kala', 'maths_marks': 32, 'english_marks': 46, 'science_marks': 53, 'average': { } }
{ 'name': 'Aruli', 'maths_marks': 78, 'english_marks': 85, 'science_marks': 80, 'average': { } }
{ 'name': 'Shayu', 'maths_marks': 80, 'english_marks': 76, 'science_marks': 65, 'average': { } }
{ 'name': 'Lucky', 'maths_marks': 66, 'english_marks': 90, 'science_marks': 75, 'average': { } }
{ 'name': 'Gva', 'maths_marks': 71, 'english_marks': 65, 'science_marks': 56, 'average': { } }
{ 'name': 'Raam', 'maths_marks': 41, 'english_marks': 65, 'science_marks': 88, 'average': { } }
{ 'name': 'John', 'maths_marks': 87, 'english_marks': 23 }
```

14) Remove Kumaran's document from collection

14q.js -- ~/Desktop -- Atom

Project

- Desktop
  - nodejs exercise2
    - node mongo1
      - 1q.js
      - 2q.js
      - 3q.js
      - 4q.js
      - 5q.js
      - 6q.js
      - 7q.js
      - 8q.js
      - 9q.js
      - 10q.js
    - node mongo2
      - 1q.js
      - 2q.js
      - 3q.js
      - 4q.js
      - 5q.js
      - 6q.js
      - 7q.js
      - 8q.js
      - 9q.js
      - 10q.js
      - 11.js
      - 12q.js
      - 13q.js
      - 14q.js

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   var myquery = {name:"Kumaran"};
8   dbo.collection("studentmarks").deleteOne(myquery, function(err, obj) {
9     if (err) throw err;
10    console.log("1 document deleted");
11    db.close();
12  });
13 });
14
```

nodejs/nodejs exercise2/node mongo2/14q.js 14:1

LF UTF-8 Babel 0 files 1 update

ukistu03@uklpc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2

```
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 14q.js
(node:16735) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
1 document deleted
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```

name	maths_marks	english_marks	science_marks	average
Arun	78	85	80	
Shayu	88	76	65	
Lucky	68	88	75	
Gva	71	65	56	
Raan	41	65	88	
John	87		23	

```
ukistu03@ukipc03: ~  
File Edit View Search Terminal Tabs Help  
ukistu03@ukipc03: ~  
ukistu03@ukipc03: ~  
> db.studentmarks.find({}, { _id: 0 })  
{ "name" : "Mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "average" : { } }  
{ "name" : "Vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "average" : { } }  
{ "name" : "Kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53, "average" : { } }  
{ "name" : "Aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80, "average" : { } }  
{ "name" : "Shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65, "average" : { } }  
{ "name" : "Lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "average" : { } }  
{ "name" : "Gva", "maths_marks" : 71, "english_marks" : 65, "science_marks" : 56, "average" : { } }  
{ "name" : "Raam", "maths_marks" : 41, "english_marks" : 65, "science_marks" : 88, "average" : { } }  
{ "name" : "John", "maths_marks" : 87, "english_marks" : 23, "science_marks" : 23 }  
[ ]  
Trash 8qatom.png 8qmongo.png 8qnode.png 7qatom.png 7qmongo.png 7qnode.png  
Network 8qatom.png 8qnode.png 9qatom.png 9qnode.png 10qatom.png 10qnode.png  
Computer 12qatom.png 12qmongo.png 12qnode.png 13q.png 13qatom.png 13qmongo.png  
Downloads 13qnode.png 14qatom.png 14qnode.png 15qatom.png 15qnode.png master.png  
Connect to Server
```

15) Find Kala's or Aruli's math\_marks and science\_marks

```
15q.js -- ~/Desktop -- Atom  
Project  
Desktop  
2q.js  
3q.js  
4q.js  
5q.js  
6q.js  
7q.js  
8q.js  
9q.js  
10q.js  
node mongo2  
1q.js  
2q.js  
3q.js  
4q.js  
5q.js  
6q.js  
7q.js  
8q.js  
9q.js  
10q.js  
11.js  
12q.js  
13q.js  
14q.js  
15q.js  
nodejs exercise2.1.pdf  
practical  
nodejs/nodejs exercise2/node mongo2/15q.js 15:1  
LF UTF-8 Babel 0 files 1 update  
15q.js  
1 var MongoClient = require('mongodb').MongoClient;  
2 var url = "mongodb://localhost:27017/";  
3  
4 MongoClient.connect(url, function(err, db) {  
5   if (err) throw err;  
6   var dbo = db.db("student");  
7   dbo.collection("studentmarks").find({$or:[{name:"Kala"},{name:"Aruli"} ]} ,  
8     { projection:{name:true,_id:false,maths_marks:true,  
9       science_marks:true}}).toArray(function(err, result){  
10     if (err) throw err;  
11     console.log(result);  
12     db.close();  
13   });  
14 });  
15
```

```
ukistu03@uklpc03: ~/Desktop/nodejs/nodejs exercise2/node mongo2
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$ node 15q.js
(node:16945) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass
option { useNewUrlParser: true } to MongoClient.connect.
[ { name: 'Kala', maths_marks: 32, science_marks: 53 },
  { name: 'Arul', maths_marks: 78, science_marks: 80 } ]
ukistu03@uklpc03:~/Desktop/nodejs/nodejs exercise2/node mongo2$
```