



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Internet And Web Programming Lab

Assessment VI

Slot:-L53+L54

Faculty :- **SRIDHAR RAJ Sir**

Submitted by:-

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19BCB0068

Ques 1. Insert: Create a minimum of TWO collections and insert at least 10 documents in each of the collection.

Code to create database called mydb:

db.js:-

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/mydb";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  console.log("Database created!");
  db.close();
});
```

Screenshots:-

```
Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Developer
$ npm install mongodb

added 20 packages, and audited 21 packages in 5s

3 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Developer
$ node db.js
Database created!
```

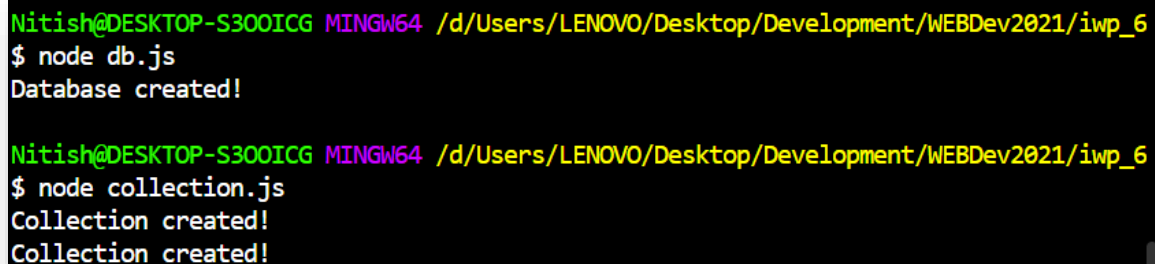
```
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
mydb     0.000GB
```

Code to create Collections:-

Collection.js:-

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  dbo.createCollection("Cats", function(err, res) {
    if (err) throw err;
    console.log("Collection created!");
    db.close();
  });
});
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  dbo.createCollection("Users", function(err, res) {
    if (err) throw err;
    console.log("Collection created!");
    db.close();
  });
});
```

Screenshots:-



```
Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/iwp_6
$ node db.js
Database created!

Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/iwp_6
$ node collection.js
Collection created!
Collection created!
```

```
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> show collections
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
mydb     0.000GB
> use mydb
switched to db mydb
> show collections
Cats
Users
```

Code to insert documents in each collection:-

Cats.js:-

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  var myobj = [
    { catName:'Kiara',ownerName:'Taiba',Gender:'F'},
    { catName:'Scarlet',ownerName:'Nitish',Gender:'F'},
    { catName:'Rio',ownerName:'Ethan',Gender:'M'},
    { catName:'Rue',ownerName:'Ethan',Gender:'M'},
    { catName:'Cia',ownerName:'Rohini',Gender:'F'},
    { catName:'Dio',ownerName:'Ashish',Gender:'F'},
    { catName:'Rio',ownerName:'Ashish',Gender:'F'},
    { catName:'Kio',ownerName:'Ashish',Gender:'M'},
    { catName:'Skie',ownerName:'Hemant',Gender:'M'},
    { catName:'Neko',ownerName:'Suman',Gender:'M'}
  ];
  dbo.collection("Cats").insertMany(myobj, function(err, res) {
```

```

if (err) throw err;
console.log("Number of documents inserted: " + res.insertedCount);
db.close();
});
});

```

Screenshots:-

```

Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/Iwp_6
$ ls
cats.js  collection.js  db.js  node_modules/  package.json  package-lock.json

Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/Iwp_6
$ node cats.js
Number of documents inserted: 10

Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/Iwp_6
$ 

```

```

> db.Cats.find()
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a47e"), "catName" : "Kiara", "ownerName" : "Taiba", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a47f"), "catName" : "Scarlet", "ownerName" : "Nitish", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a480"), "catName" : "Rio", "ownerName" : "Ethan", "Gender" : "M" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a481"), "catName" : "Rue", "ownerName" : "Ethan", "Gender" : "M" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a482"), "catName" : "Cia", "ownerName" : "Rohini", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a483"), "catName" : "Dio", "ownerName" : "Ashish", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a484"), "catName" : "Rio", "ownerName" : "Ashish", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a485"), "catName" : "Kio", "ownerName" : "Ashish", "Gender" : "M" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a486"), "catName" : "Skie", "ownerName" : "Hemant", "Gender" : "M" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a487"), "catName" : "Neko", "ownerName" : "Suman", "Gender" : "M" }

```

Users.js:-

```

var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
if (err) throw err;
var dbo = db.db("mydb");
var myobj = [
{ UserName:'Taiba',Gender:'F',password:'123'},
{ UserName:'Nitish',Gender:'F',password:'123'},
{ UserName:'Ethan',Gender:'M',password:'123'},

```

```
{ UserName:'Ethan',Gender:'M',password:'123'},
{ UserName:'Rohini',Gender:'F',password:'123'},
{ UserName:'Ashish',Gender:'F',password:'123'},
{ UserName:'Ashish',Gender:'F',password:'123'},
{ UserName:'Ashish',Gender:'M',password:'123'},
{ UserName:'Hemant',Gender:'M',password:'123'},
{ UserName:'Suman',Gender:'M',password:'123'}
];
dbo.collection("Users").insertMany(myobj, function(err, res) {
if (err) throw err;
console.log("Number of documents inserted: " + res.insertedCount);
db.close();
});
});
```

Screenshots:-

```
Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/Iwp_6
$ node users.js
Number of documents inserted: 10
```

```
> db.Users.find()
{ "_id" : ObjectId("6260ded77173bde2e8ba934a"), "UserName" : "Taiba", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934b"), "UserName" : "Nitish", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934c"), "UserName" : "Ethan", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934d"), "UserName" : "Ethan", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934e"), "UserName" : "Rohini", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934f"), "UserName" : "Ashish", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9350"), "UserName" : "Ashish", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9351"), "UserName" : "Ashish", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9352"), "UserName" : "Hemant", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9353"), "UserName" : "Suman", "Gender" : "M", "password" : "123" }
```

Ques 2. Update: Minimum of THREE different fields should be updated. Display both the old and updated values.

Code to update:-

Update.js:-

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  var myquery = { ownerName:'Taiba' };
  var newvalues = { $set: { catName:'Lyari',ownerName:'Amreen',Gender:'M' } };
  var myquery = { ownerName:'Nitish' };
  var newvalues = { $set: { catName:'Scom',ownerName:'Manish',Gender:'M' } };
  var myquery = { ownerName:'Ethan' };
  var newvalues = { $set: { catName:'Rim',ownerName:'Aiden',Gender:'M' } };
  dbo.collection("Cats").updateMany(myquery, newvalues, function(err, res) {
    if (err) throw err;
    console.log("4 document updated");
    db.close();
  });
});
```

Screenshots:-

```
Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/Iwp_6
$ node update.js
4 document updated
```

Old values:-

```
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a47e"), "catName" : "Kiara", "ownerName" : "Taiba", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a47f"), "catName" : "Scarlet", "ownerName" : "Nitish", "Gender" : "F" }
{ "_id" : ObjectId("6260ddaf95b9b6187cf8a480"), "catName" : "Rio", "ownerName" : "Ethan", "Gender" : "M" }
```

Updated values:-

```
> db.Cats.find()
{ "_id" : ObjectId("6260e1b38bc562c3b0181642"), "catName" : "Lyari", "ownerName" : "Amreen", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181643"), "catName" : "Scom", "ownerName" : "Manish", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181644"), "catName" : "Rim", "ownerName" : "Aiden", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181645"), "catName" : "Rim", "ownerName" : "Aiden", "Gender" : "M" }
```

Ques 3. Delete: Delete a document by referring to a specific attribute of the document.

Code to delete a document:-

Delete.js:-

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  var myquery = { ownerName:'Amreen' };
  dbo.collection("Cats").deleteOne(myquery, function(err, obj) {
    if (err) throw err;
    console.log("1 document has been deleted");
    db.close();
  });
});
```

```
Nitish@DESKTOP-S300ICG MINGW64 /d/Users/LENOVO/Desktop/Development/WEBDev2021/Iwp_6
$ node delete.js
1 document has been deleted
```


After deleting we are left with 9 documents, document with ownerName **“Amreen”** is deleted:-

Screenshots:-

```
{ "_id" : ObjectId("6260e1b38bc562c3b0181643"), "catName" : "Scom", "ownerName" : "Manish", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181644"), "catName" : "Rim", "ownerName" : "Aiden", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181645"), "catName" : "Rim", "ownerName" : "Aiden", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181646"), "catName" : "Cia", "ownerName" : "Rohini", "Gender" : "F" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181647"), "catName" : "Dio", "ownerName" : "Ashish", "Gender" : "F" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181648"), "catName" : "Rio", "ownerName" : "Ashish", "Gender" : "F" }
{ "_id" : ObjectId("6260e1b38bc562c3b0181649"), "catName" : "Kio", "ownerName" : "Ashish", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b018164a"), "catName" : "Skie", "ownerName" : "Hemant", "Gender" : "M" }
{ "_id" : ObjectId("6260e1b38bc562c3b018164b"), "catName" : "Neko", "ownerName" : "Suman", "Gender" : "M" }
```

Ques 4. Drop: Drop the first collection and display the entire data present in the left out collection.

Commands to drop collection from database:-

```
> show collections
Cats
Users
> db.Cats.drop()
true
> show collections
Users
> db.Users.find()
{ "_id" : ObjectId("6260ded77173bde2e8ba934a"), "UserName" : "Taiba", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934b"), "UserName" : "Nitish", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934c"), "UserName" : "Ethan", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934d"), "UserName" : "Ethan", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934e"), "UserName" : "Rohini", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba934f"), "UserName" : "Ashish", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9350"), "UserName" : "Ashish", "Gender" : "F", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9351"), "UserName" : "Ashish", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9352"), "UserName" : "Hemant", "Gender" : "M", "password" : "123" }
{ "_id" : ObjectId("6260ded77173bde2e8ba9353"), "UserName" : "Suman", "Gender" : "M", "password" : "123" }
```