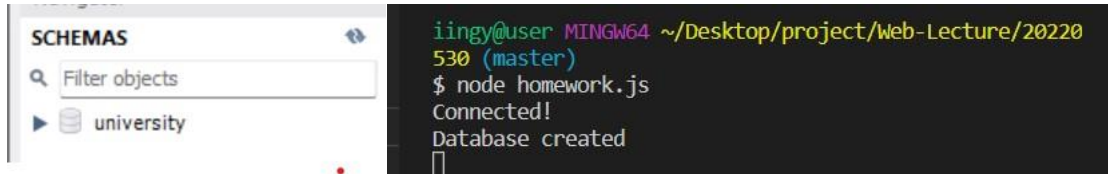


2018038083 이인규 Web Assignment for Lecture 14

1. Connect and Create Database



[code]

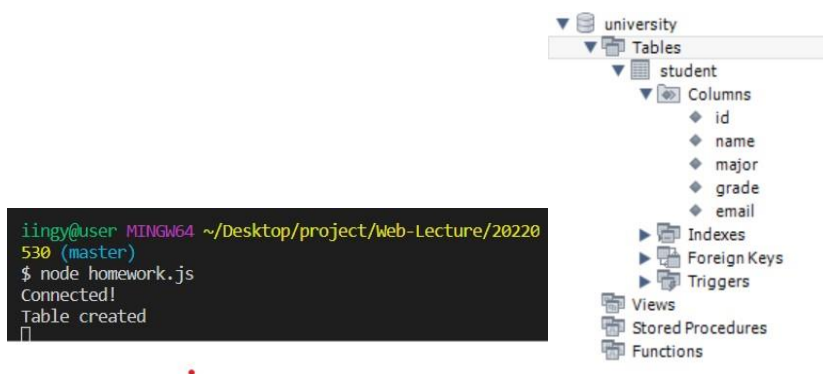
```
var mysql = require('mysql');

var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "root",
  database: "university"
});

con.connect(function (err) {
  if (err) throw err;
  console.log("Connected!");

  con.query("CREATE DATABASE university", function (err, result) {
    if (err) throw err;
    console.log("Database created");
  });
});
```

2. Create Table

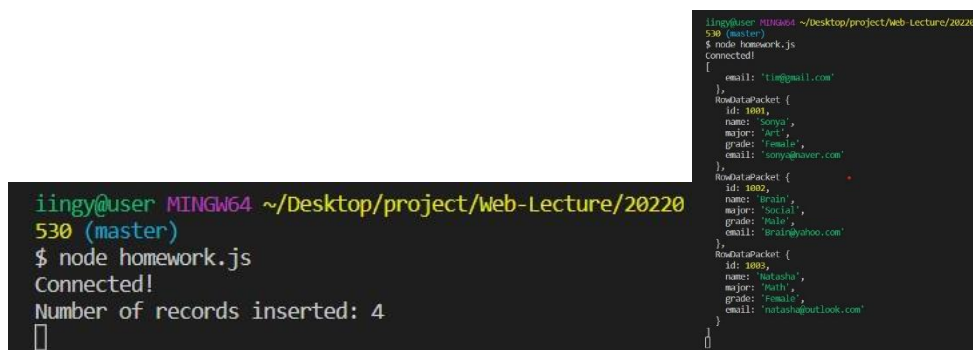


[code]

```
var sql="CREATE TABLE student ("+
    "id INT PRIMARY KEY,"+
    "name VARCHAR(255),"+
    "major VARCHAR(255),"+
    "grade VARCHAR(255),"+
    "email VARCHAR(255)" +
    ")";

con.query(sql,function(err,result){
    if(err) throw err;
    console.log("Table created");
});
```

3. Insert value



The image shows a terminal window with two parts. The left part shows the command prompt where a user runs 'node homework.js', resulting in a 'Connected!' message and 'Number of records inserted: 4'. The right part shows a JSON array of four student records: Tim (id: 1000, major: Computer, grade: Male, email: tim@gmail.com), Sonya (id: 1001, major: Art, grade: Female, email: sonya@naver.com), Brain (id: 1002, major: Social, grade: Male, email: Brain@yahoo.com), and Natasha (id: 1003, major: Math, grade: Female, email: natasha@outlook.com).

```
iingy@user MINGW64 ~/Desktop/project/Web-Lecture/20220
530 (master)
$ node homework.js
Connected!
Number of records inserted: 4
[]

[
  {
    email: 'tim@gmail.com'
  },
  RowDataPacket {
    id: 1000,
    name: 'Sonya',
    major: 'Art',
    grade: 'Female',
    email: 'sonya@naver.com'
  },
  RowDataPacket {
    id: 1002,
    name: 'Brain',
    major: 'Social',
    grade: 'Male',
    email: 'Brain@yahoo.com'
  },
  RowDataPacket {
    id: 1003,
    name: 'Natasha',
    major: 'Math',
    grade: 'Female',
    email: 'natasha@outlook.com'
  }
]
```

[code]

```
var sql = "INSERT INTO student (id,name,major,grade,email) VALUES ?";
var values = [
    [1000, 'Tim', 'Computer', 'Male', 'tim@gmail.com'],
    [1001, 'Sonya', 'Art', 'Female', 'sonya@naver.com'],
    [1002, 'Brain', 'Social', 'Male', 'Brain@yahoo.com'],
    [1003, 'Natasha', 'Math', 'Female', 'natasha@outlook.com']
];
con.query(sql, [values], function (err, result) {
    if (err) throw err;
    console.log("Number of records inserted: " + result.affectedRows);
});
```

4. SELECT query with WHERE (id <1002)

```
$ node homework.js
Connected!
[
  RowDataPacket {
    id: 1000,
    name: 'Tim',
    major: 'Computer',
    grade: 'Male',
    email: 'tim@gmail.com'
  },
  RowDataPacket {
    id: 1001,
    name: 'Sonya',
    major: 'Art',
    grade: 'Female',
    email: 'sonya@naver.com'
  }
]
```

[code]

```
var sql="SELECT * FROM student WHERE id<=1001";
con.query(sql,function(err,result,fields){
  if(err) throw err;
  console.log(result);
})
```

5. Update emails to 123@naver.com

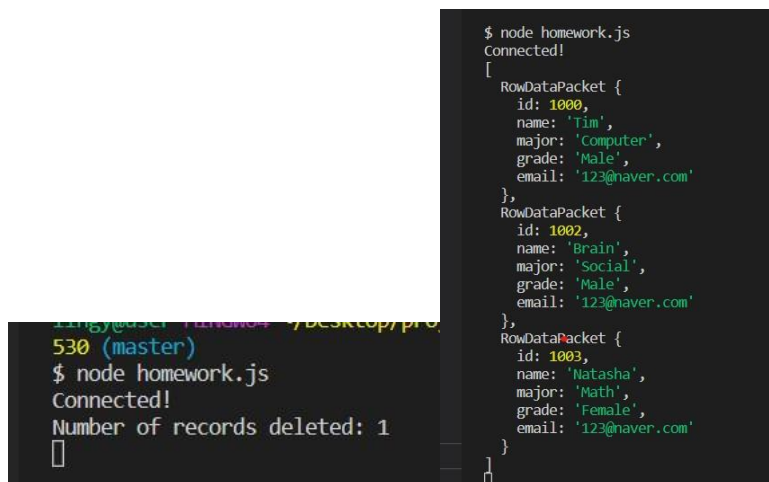
```
grade: 'Female',
email: '123@naver.com'
},
RowDataPacket {
  id: 1002,
  name: 'Brain',
  major: 'Social',
  grade: 'Male',
  email: '123@naver.com'
},
RowDataPacket {
  id: 1003,
  name: 'Natasha',
  major: 'Math',
  grade: 'Female',
  email: '123@naver.com'
}
]
```

```
iingy@user MINGW64 ~/Desktop/project/Web-Lecture/202220
530 (master)
$ node homework.js
Connected!
4 record(s) updated
```

[code]

```
var sql = "UPDATE student SET email = '123@naver.com'";
con.query(sql, function (err, result) {
  if (err) throw err;
  console.log(result.affectedRows + " record(s) updated");
});
```

6. Delete Row id=1001



The image contains two terminal screenshots. The left screenshot shows a MySQL command prompt where the user runs 'node homework.js' and receives the output 'Number of records deleted: 1'. The right screenshot shows the output of the same script, displaying a JSON array of three student records with IDs 1000, 1002, and 1003, all having the email '123@naver.com'.

```
$ node homework.js
Connected!
[
  RowDataPacket {
    id: 1000,
    name: 'Tim',
    major: 'Computer',
    grade: 'Male',
    email: '123@naver.com'
  },
  RowDataPacket {
    id: 1002,
    name: 'Brain',
    major: 'Social',
    grade: 'Male',
    email: '123@naver.com'
  },
  RowDataPacket {
    id: 1003,
    name: 'Natasha',
    major: 'Math',
    grade: 'Female',
    email: '123@naver.com'
  }
]
```

[code]

```
var sql = "DELETE FROM student WHERE id = 1001";
con.query(sql, function (err, result) {
  if (err) throw err;
  console.log("Number of records deleted: " + result.affectedRows);
});
```

7. Show tables code

[code]

```
con.query(sql, function (err, result, fields) {
  if (err) throw err;
  console.log(result);
})
```

@느낀점 :

This is my first time dealing with mysql. Everything that came up with the assignment was simple, but it didn't make it easy. And I'm starting to get interested in data management. So, I am planning to study mysql during vacation.