

# 데이터베이스 프로그래밍

과제2

교수명: 이인규

제출일: 10월 18일

학과: 컴퓨터공학과

학번: 5645640

이름: 제갈건

## 내용

프로그래밍 코드 .....	2
결과 이미지 .....	5

## 프로그래밍 코드

```
var mySql = require('mysql2');

const express = require('express');

const app = express();

var conn = mySql.createConnection({

  host: "localhost",

  user: "root",

  password: "man06066!!",

  database: "libery"

});

conn.connect();

app.listen(8080, function () {

  console.log("포트 8080으로 서버 대기중 ... ")

});

// 조회 (list)

app.get('/list', function (req, res) {

  const { author } = req.query;

  var query1 = `select * from book where author like '${author}%'`;

  conn.query(query1, (err, rows, fields) => {

    if (err) throw err;

    res.send(rows);
```

```

    });

});

// 조회 (rentallist)

app.get('/rentallist', function (req, res) {

    const { notreturned } = req.query;

    if (notreturned) var query1 = `select * from rental`;

    conn.query(query1, (err, rows, fields) => {

        if (err) throw err;

        res.send(rows);

    });

});

```

```

// 추가 (rental)

app.get('/rental', function (req, res) {

    const { book_id, rental_user_id } = req.query;

    var query2 = `select * from book where book_id = ${book_id}`;

    conn.query(query2, (err, rows, fields) => {

        if (err) throw err;

        var text = rows;

        var query5 = `insert into rental(title, rental_date, return_date, rental_user_id,
rental_user_name) values('${text[0].title}', now(), null, ${rental_user_id}, "Lee Ingyu")`;

        conn.query(query5, (err, rows, fields) => {

            if (err) throw err;

```

```
        res.send("OK");
    });
});
});
```

```
// 갱신 (UPDATE)
```

```
app.get('/return', function (req, res) {
    const {rental_id} = req.query;
    var query3 = `update rental set return_date = now() where rental_id = ${rental_id}`;
    conn.query(query3, (err, result) => {
        if (err) throw err;
        res.send('OK');
    });
});
```

## 결과 이미지

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| library |
| myboard |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
8 rows in set (0.01 sec)

mysql> use library;
Database changed
mysql> show tables;
+-----+
| Tables_in_library |
+-----+
| book |
| rental |
+-----+
2 rows in set (0.00 sec)

mysql> select * from book;
+-----+
| book_id | title | author | isbn |
+-----+
| 1 | 알고리즘 | Kim Dongsu | 978-0262033848 |
| 4 | 클린코드 | Kim Wldong | 978-0132350884 |
| 8 | 프로그래머 | Kim Taegu | 978-0201616224 |
+-----+
3 rows in set (0.00 sec)

mysql> select * from rental;
+-----+
| rental_id | title | rental_date | return_date | rental_user_id | rental_user_name |
+-----+
| 1 | 알고리즘 | 2024-10-10 | 2024-10-23 17:02:04 | 1 | Lee Ingyu |
| 2 | 프로그래머 | 2024-10-20 | NULL | 1 | Lee Ingyu |
+-----+
2 rows in set (0.00 sec)

mysql>
```

```
mysql> show tables;
+-----+
| Tables_in_library |
+-----+
| book |
| rental |
+-----+
2 rows in set (0.00 sec)

mysql> select * from book;
+-----+
| book_id | title | author | isbn |
+-----+
| 1 | 알고리즘 | Kim Dongsu | 978-0262033848 |
| 4 | 클린코드 | Kim Wldong | 978-0132350884 |
| 8 | 프로그래머 | Kim Taegu | 978-0201616224 |
+-----+
3 rows in set (0.00 sec)

mysql> select * from rental;
+-----+
| rental_id | title | rental_date | return_date | rental_user_id | rental_user_name |
+-----+
| 1 | 알고리즘 | 2024-10-10 | 2024-10-23 17:02:04 | 1 | Lee Ingyu |
| 2 | 프로그래머 | 2024-10-20 | NULL | 1 | Lee Ingyu |
+-----+
2 rows in set (0.00 sec)

mysql> select * from book where book_id=1;
+-----+
| book_id | title | author | isbn |
+-----+
| 1 | 알고리즘 | Kim Dongsu | 978-0262033848 |
+-----+
1 row in set (0.00 sec)

mysql> select * from rental;
+-----+
| rental_id | title | rental_date | return_date | rental_user_id | rental_user_name |
+-----+
| 1 | 알고리즘 | 2024-10-10 | 2024-10-23 17:07:00 | 1 | Lee Ingyu |
| 2 | 프로그래머 | 2024-10-20 | NULL | 1 | Lee Ingyu |
| 3 | 알고리즘 | 2024-10-23 17:21:38 | NULL | 1 | Lee Ingyu |
+-----+
3 rows in set (0.00 sec)

mysql>
```

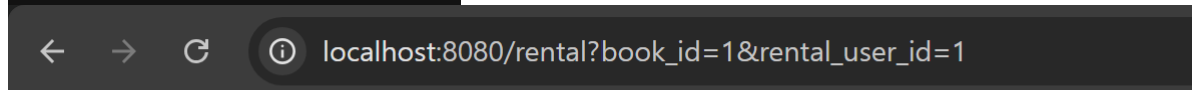
3번 문제를 젤 마지막에 풀어 추가 결과 사진 첨부

```
pretty print 적용 ☒
[
  {
    "book_id": 1,
    "title": "알고리즘",
    "author": "Kim Dongsu",
    "isbn": "978-0262033848"
  },
  {
    "book_id": 4,
    "title": "클린코드",
    "author": "Kim Kildong",
    "isbn": "978-0132350884"
  },
  {
    "book_id": 8,
    "title": "프로그래머",
    "author": "Kim Taegu",
    "isbn": "978-0201616224"
  }
]
```

1.

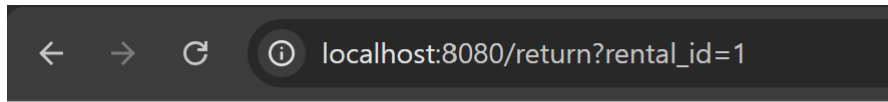
```
pretty print 적용 ☒
[
  {
    "book_id": 1,
    "title": "알고리즘",
    "author": "Kim Dongsu",
    "isbn": "978-0262033848"
  },
  {
    "book_id": 4,
    "title": "클린코드",
    "author": "Kim Kildong",
    "isbn": "978-0132350884"
  },
  {
    "book_id": 8,
    "title": "프로그래머",
    "author": "Kim Taegu",
    "isbn": "978-0201616224"
  }
]
```

2.



OK

3.



OK

4.