18) Opintorekisteri, Arviointitaulu

Database.js tiedosto:

```
database.js > ...
    const mysql = require('mysql2');
    const connection = mysql.createPool({
        host: 'localhost',
        user: 'testi',
        password: 'xxxx',
        database: 'test_db2'
    });
    module.exports = connection;
```

Arviointi.js tiedosto

```
const express = require('express');
const router = express.Router();
const arviointi = require('../models/arviointi_model');
router.get('/',
    function (request, response) {
        arviointi.getAll(function (err, dbResult) {
                       response.json(err);
                    console.log(dbResult);
response.json(dbResult);
router.get('/:id',
function (request, response) {
    arviointi.get8yId(request.params.id, function (err, dbResult) {
                response.json(err);
} else {
                       response.json(dbResult);
router.post('/',
function(request, response) {
    arviointi.add(request.body, function(err, dbResult) {
    response.json(err);
} else {
        response.json(dbResult);
router.delete('/:id',
function(request, response) {
   arviointi.delete(request.params.id, function(err, dbResult) {
       response.json(err);
     } else {
        response.json(dbResult);
router.put('/:id',
function(request, response) {
  arviointi.update(request.params.id, request.body, function(err, dbResult) {
   response.json(err);
} else {
        response.json(dbResult);
```

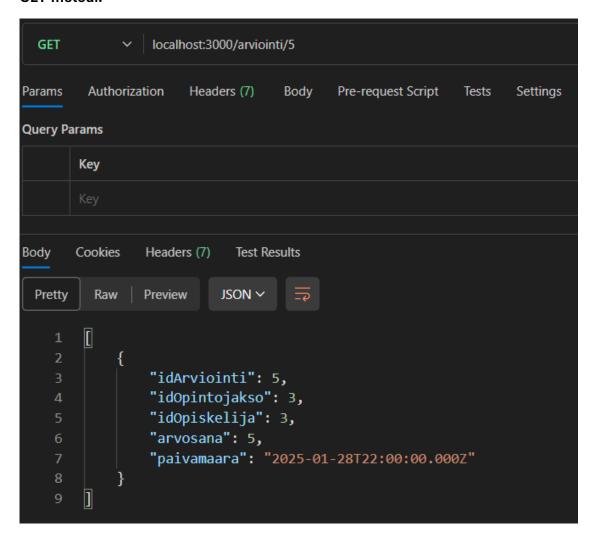
Arviointi_model.js tiedosto:

```
nodels > JS arviointi_model.js >
     const db = require('../database');
       getAll: function(callback) {
         return db.query('select * from arviointi', callback);
       getById: function(id, callback) {
         return db.query('select * from arviointi where idArviointi=?', [id], callback);
       add: function(arviointi, callback) {
         return db.query(
           [arviointi.idOpintojakso, arviointi.idOpiskelija, arviointi.arvosana, arviointi.paivamaara],
       delete: function(id, callback) {
         return db.query('delete from arviointi where idArviointi=?', [id], callback);
       update: function(id, arviointi, callback) {
         return db.query(
           'update arviointi set idOpintojakso=?,idOpiskelija=?, arvosana=?, paivamaara=? where idArviointi=?',
           [arviointi.idOpintojakso, arviointi.idOpiskelija, arviointi.arvosana, arviointi.paivamaara, id],
           callback
27
     module.exports = arviointi;
```

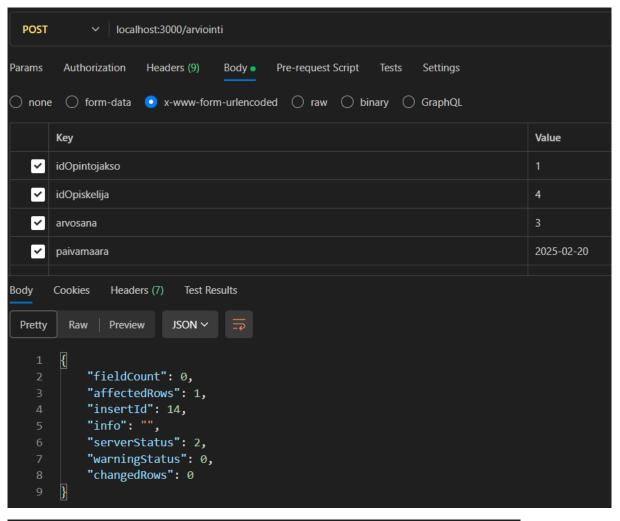
App.js tiedosto:

```
Js app.js > ...
1     var express = require('express');
2     var path = require('path');
3     var cookieParser = require('cookie-parser');
4     var logger = require('morgan');
5
6
7     var arviointiRouter = require('./routes/arviointi');
8
9
10     var app = express();
11
12     app.use(logger('dev'));
13     app.use(express.json());
14     app.use(express.urlencoded({ extended: false }));
15     app.use(cookieParser());
16     app.use(express.static(path.join(_dirname, 'public')));
17
18
19     app.use('/arviointi', arviointiRouter);
20
21
22     module.exports = app;
23
```

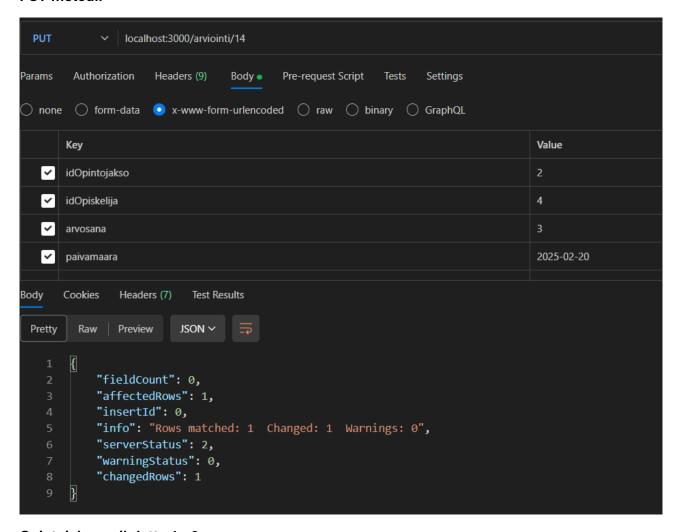
GET-metodi:



POST-metodi:

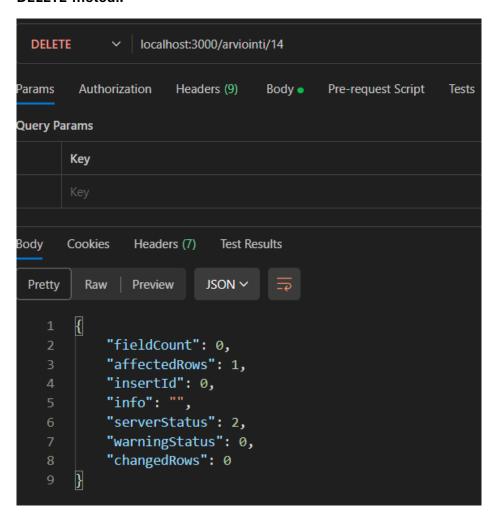


PUT-metodi:

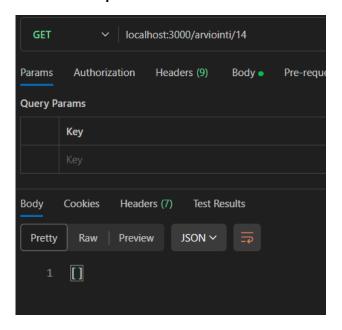


Opintojakso vaihdettu 1->2

DELETE-metodi:



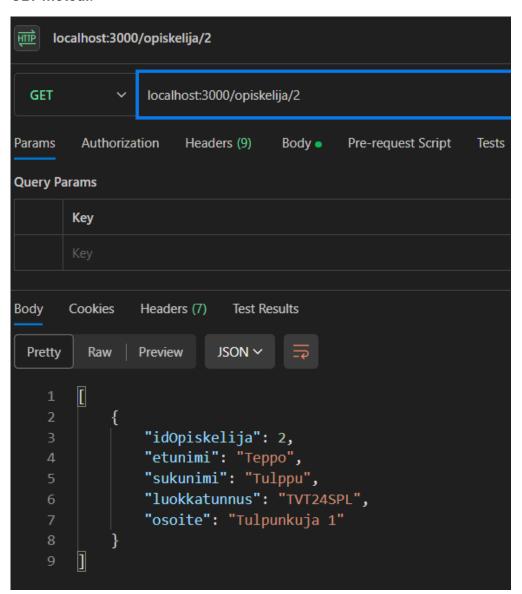
idArviointi 14 poistettu:



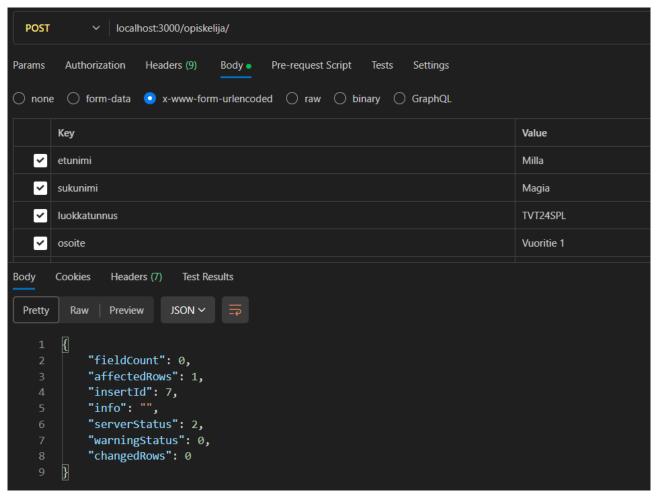
Jotta documentista ei tule järjettömän pitkä, jätän screenshotit .js tiedostoista pois. Olen kuitenkin ne tehnyt (muutenhan seuraavat CRUD menetelmäthän eivät toimisi.

Opiskelijataulu

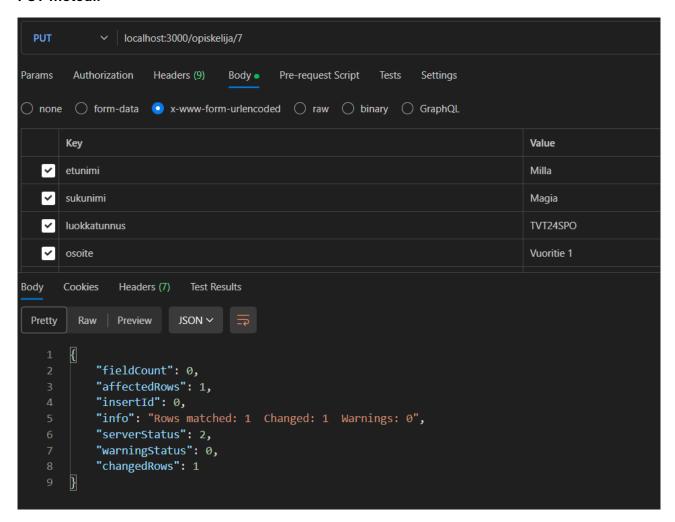
GET-metodi:



POST-metodi:

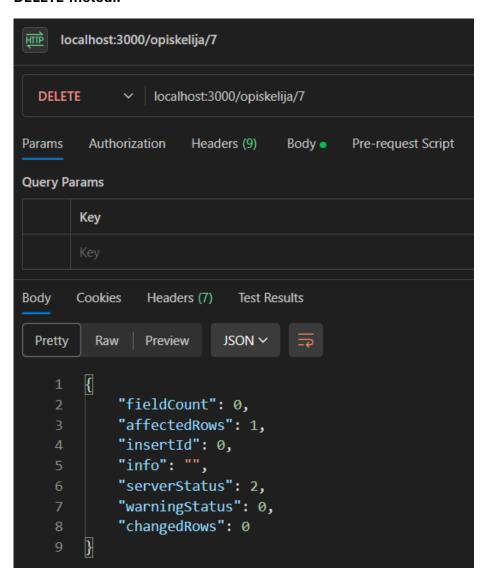


PUT-metodi:

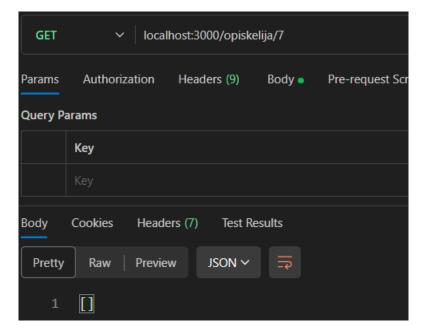


luokkatunnus vaihdettu TVT24SPL -> TVT24SPO

DELETE-metodi:

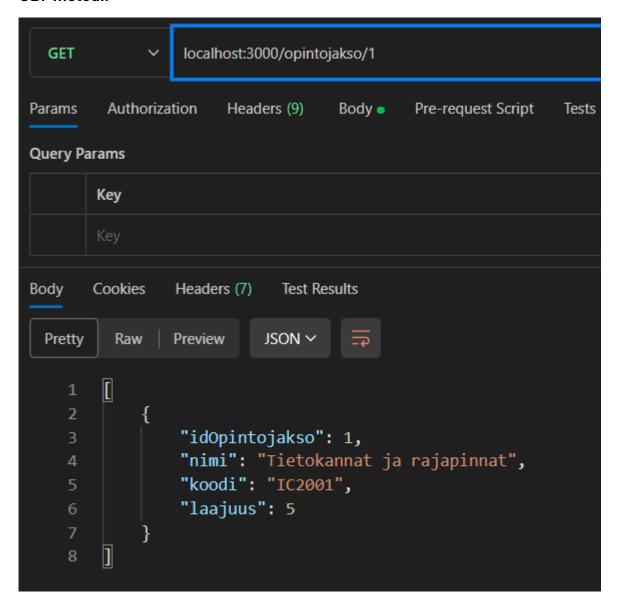


idOpiskelija 7 poistettu:



Opintojaksotaulu

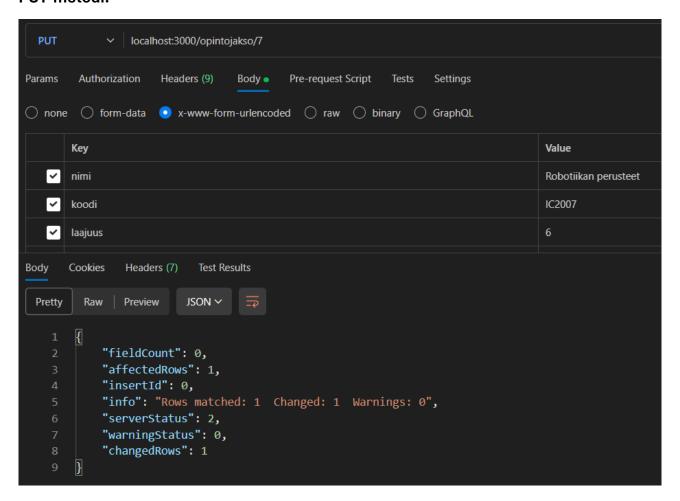
GET-metodi:



POST-metodi:

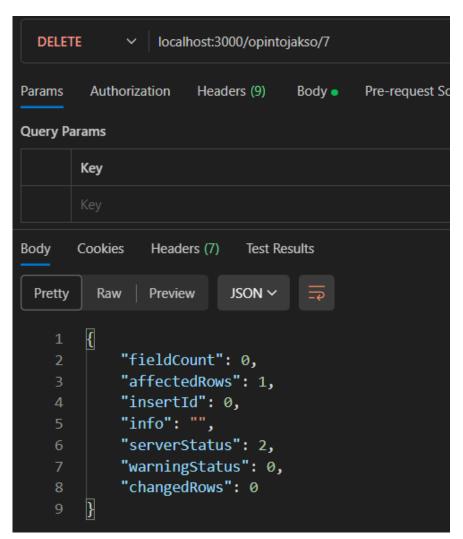
```
POST
             ∨ localhost:3000/opintojakso/
Params
        Authorization
                      Headers (9)
                                   Body •
                                           Pre-request Script Tests
                                                                   Settings
onone form-data ox-www-form-urlencoded raw binary GraphQL
       Key
                                                                                      Value
      nimi
                                                                                      Robotiikan perusteet
                                                                                      IC2007
      koodi
   ✓ Laajuus
Body
       Cookies
                Headers (7)
                            Test Results
                          JSON ~
         Raw Preview
 Pretty
            "fieldCount": 0,
            "affectedRows": 1,
            "insertId": 7,
            "info": "",
            "serverStatus": 2,
            "warningStatus": 0,
            "changedRows": 0
```

PUT-metodi:



laajuus päivitetty 5 -> 6

DELETE-metodi:



idOpintojakso 7 poistettu:

