

Tehtävät 22 ja 24 valmistelut:

Borrower-taulun luonti:

```
mysql> create table borrower(
-> id_borrower INT PRIMARY KEY AUTO_INCREMENT,
-> fname VARCHAR(40),
-> lname VARCHAR(40),
-> streetaddress VARCHAR(40)
-> );
Query OK, 0 rows affected (0.02 sec)
```

Todetaan, että taulu näyttää oikealta.

```
mysql> desc book;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key  | Default | Extra           |
+-----+-----+-----+-----+-----+
| id_book | int    | NO   | PRI   | NULL    | auto_increment |
| name     | varchar | YES  |        | NULL    |                |
| author   | varchar | YES  |        | NULL    |                |
| isbn     | varchar | YES  |        | NULL    |                |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> desc borrower;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key  | Default | Extra           |
+-----+-----+-----+-----+-----+
| id_borrower | int    | NO   | PRI   | NULL    | auto_increment |
| fname      | varchar | YES  |        | NULL    |                |
| lname      | varchar | YES  |        | NULL    |                |
| streetaddress | varchar | YES  |        | NULL    |                |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

# Henri Kemppainen TTV25SPL

## Postman-haku Hannu-käyttäjänä

The screenshot shows the Postman application interface. At the top, the URL is set to `localhost:3000/book`. The method is `GET`, and the body is defined as raw JSON:

```
1 [{}  
2   ... "username" : "Hannu",  
3   ... "password" : "onnekas"  
4 ]
```

The Headers tab shows `Content-Type: application/json`. The Body tab shows the JSON response from the server:

```
1 {"success":true,"message":"Login OK","username":"Hannu","token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.  
eyJlc2VmFtZSI6Ikhbm5IiwiawF0IjoxNzcxMzI3OTAxLCJleHAiOjE3NzEzMjk3MDF9.JQ3L2UYm5LtdhIfdR3A26J6GmAXyVMsBNNIKGd1dAKg"}
```

The Test Results tab shows the status: `200 OK`, Time: 5 ms, Size: 401 B. The terminal below shows the command `nodemon start` and the log output:

```
PS C:\Users\heke_\OneDrive\Työpöytä\Henri koulu palautukset\Tietokannat\Viikko 7> nodemon start  
GET /favicon.ico 401 0.275 ms - 12  
POST /user 200 64.256 ms - 242  
success  
POST /login 200 58.355 ms - 220  
[  
  {  
    id_book: 1,  
    name: 'PHP Basic',  
    author: 'Bob Jones',  
    isbn: '123-456-789-111-x'  
  },  
  {  
    id_book: 2,  
    name: 'Statistics',  
    author: 'Lisa Smith',  
    isbn: '222-333-444-555-y'  
  }  
]  
GET /book 200 1.742 ms - 165
```

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Lisätään uusi tietue book-tauluun käyttäen postmania. Siirsin app.use('/book', bookRouter):in pois salauksen takaa testailun ajaksi.

The screenshot shows the Postman interface. At the top, it says "localhost:3000/book". Below that, there's a "POST" method and a URL "localhost:3000/book". Under "Body", the "x-www-form-urlencoded" option is selected. A table shows three fields: "name" with value "Testikirja", "author" with value "Testikirjailija", and "isbn" with value "123-456". In the "Test Results" section, the status is "200 OK", time is "41 ms", and size is "0". The response body is a JSON array with one element: [{"fieldCount":0,"affectedRows":1,"insertId":5,"info":"","serverStatus":2,"warningStatus":0,"changedRows":0}]. The terminal at the bottom shows the command "nodemon start" and the output of the POST request to "/book" with a 200 status and 33.616 ms duration.

Ja sinne se ilmestyi!

The screenshot shows the Postman interface again. At the top, it says "localhost:3000/book". Below that, there's a "GET" method and a URL "localhost:3000/book". In the "Test Results" section, the status is "200 OK", time is "37 ms", and size is "479 B". The response body is a JSON array with three elements: [{"id\_book":1,"name":"PHP Basic","author":"Bob Jones","isbn":"123-456-789-111-x"}, {"id\_book":2,"name":"Statistics","author":"Lisa Smith","isbn":"222-333-444-555-y"}, {"id\_book":5,"name":"Testikirja","author":"Testikirjailija","isbn":"123-456"}]. The terminal at the bottom shows the command "nodemon start" and the output of the GET request to "/book" with a 200 status and 29.335 ms duration.

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Tietueen muokkaus:

The screenshot shows the Postman interface with a PUT request to `localhost:3000/book/5`. The body is set to `x-www-form-urlencoded` and contains the following data:

Key	Value
<input checked="" type="checkbox"/> name	Testikirja
<input checked="" type="checkbox"/> author	Testikirjailija
<input checked="" type="checkbox"/> isbn	xxx-xxx
Key	Value

The response status is 200 OK, Time: 6 ms, Size: 383 B.

Body Headers (7) Test Results

Pretty Raw Preview JSON

```
1 [{"fieldCount":0,"affectedRows":1,"insertId":0,"info":"Rows matched: 1  Changed: 1  Warnings: 0","serverStatus":2,"warningStatus":0,"changedRows":1}]
```

Uusi tulostus:

The screenshot shows the Postman interface with a GET request to `localhost:3000/book/`. The response body is a JSON array of books:

```
1 [{"id_book":1,"name":"PHP Basic","author":"Bob Jones","isbn":"123-456-789-111-x"}, {"id_book":2,"name":"Statistics","author":"Lisa Smith","isbn":"222-333-444-555-y"}, {"id_book":5,"name":"Testikirja","author":"Testikirjailija","isbn":"xxx-xxx"}]
```

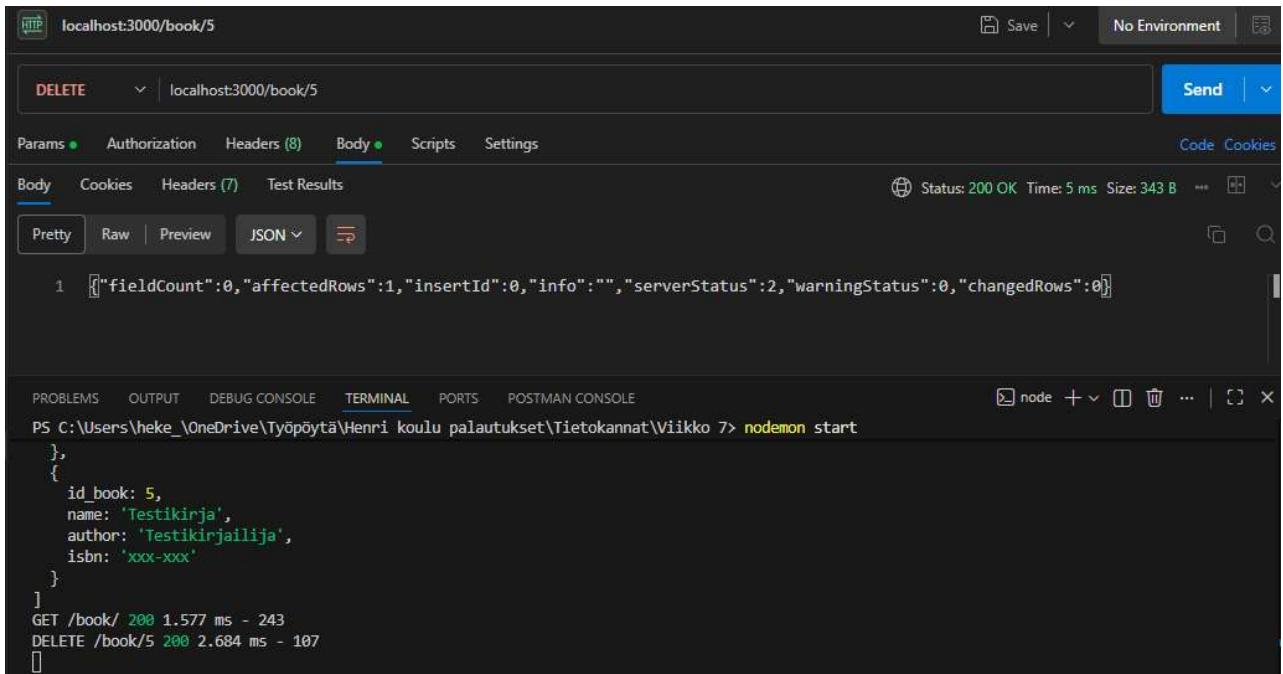
The terminal shows the command `nodemon start` was run in the directory `C:\Users\heke\_OneDrive\Työpöytä\Henri koulu palautukset\Tietokannat\Viikko 7>`.

```
PS C:\Users\heke\_OneDrive\Työpöytä\Henri koulu palautukset\Tietokannat\Viikko 7> nodemon start
},
{
  id_book: 5,
  name: 'Testikirja',
  author: 'Testikirjailija',
  isbn: 'xxx-xxx'
}
]
GET /book/ 200 1.577 ms - 243
```

Muokkaus toimi!

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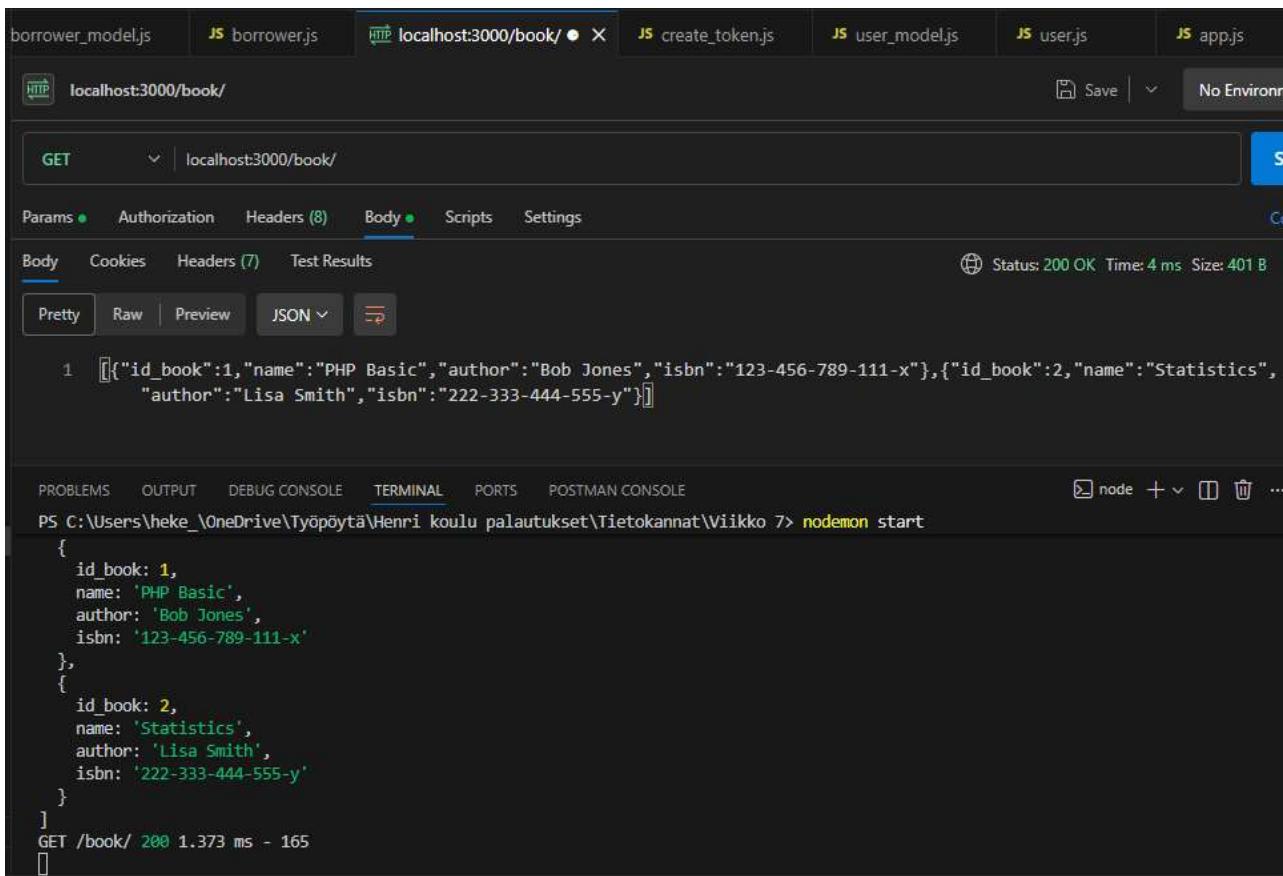
Viimeisenä poistaminen:



The screenshot shows the Postman interface with a successful DELETE request to `localhost:3000/book/5`. The response body is a JSON array with one element: `[{"fieldCount":0,"affectedRows":1,"insertId":0,"info":"","serverStatus":2,"warningStatus":0,"changedRows":0}]`. Below the interface, a terminal window shows the command `nodemon start` and the deletion of the book with id 5.

```
PS C:\Users\heke_\OneDrive\Työpöytä\Henri koulu palautukset\Tietokannat\Viikko 7> nodemon start
},
{
  id_book: 5,
  name: 'Testikirja',
  author: 'Testikirjailija',
  isbn: 'xxx-xxx'
}
GET /book/ 200 1.577 ms - 243
DELETE /book/5 200 2.684 ms - 107
```

Todetaan id\_book: 5 tietueen poistuneen taulusta. Toimii!



The screenshot shows the Postman interface with a successful GET request to `localhost:3000/book/`. The response body is a JSON array containing two books: `[{"id_book":1,"name":"PHP Basic","author":"Bob Jones","isbn":"123-456-789-111-x"}, {"id_book":2,"name":"Statistics","author":"Lisa Smith","isbn":"222-333-444-555-y"}]`. Below the interface, a terminal window shows the command `nodemon start` and the list of books in the database.

```
PS C:\Users\heke_\OneDrive\Työpöytä\Henri koulu palautukset\Tietokannat\Viikko 7> nodemon start
{
  id_book: 1,
  name: 'PHP Basic',
  author: 'Bob Jones',
  isbn: '123-456-789-111-x'
},
{
  id_book: 2,
  name: 'Statistics',
  author: 'Lisa Smith',
  isbn: '222-333-444-555-y'
}
GET /book/ 200 1.373 ms - 165
```

Borrower-taulun komennot on toteutettu samaan tyyliin, mutta korvattu kenttien nimet

id\_book → id\_borrower,

name → fname,

author → lname,

isbn → streetaddress