

20. CRUD

GET –metodilla ei aluksi tule mitään, kun taulukko on tyhjä. (read)

The screenshot shows a web browser's developer tools interface. At the top, a green status bar indicates a successful GET request to `http://localhost:3000/book`. Below this, the "Network" tab is active, showing the request details. The "Body" tab is selected, displaying the response body as an empty array `[]`. The "Headers" tab shows 19 headers, including `Content-Type: application/json` and `Server: Express`. The "Test Results" tab shows a single test result with a status of "pass".

GET `http://localhost:3000/book`

Params Authorization Headers (6) Body Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▾

1 `Ctrl+Alt+P for Postbot`


Body Cookies Headers (19) Test Results | ↺

{ } JSON ▾ ▶ Preview 🔄 Visualize ▾

1 `[]`


Luodaan POST –metodilla book –tauluun testikirja, joka näkyy SQL:ssä ja selaimella lukiessa. (create)

POST http://localhost:3000/t +


 http://localhost:3000/book





POST http://localhost:3000/book

Params Authorization Headers (8) **Body** Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON 

```
1  {
2    "name": "Testikirja",
3    "author": "Testaaja",
4    "isbn": "123456789"
5  }
```

Body Cookies Headers (19) Test Results 

 JSON  Preview  Visualize 

```
1  {
2    "name": "Testikirja",
3    "author": "Testaaja",
4    "isbn": "123456789"
5  }
```

Pretty-print ☐

```
[{"id_book":1,"name":"Testikirja","author":"Testaaja","isbn":"123456789"}]
```

```
mysql> SELECT * FROM book;
```

id_book	name	author	isbn
1	Testikirja	Testaaja	123456789

1 row in set (0.00 sec)

Päivitetään äsken lisättyä riviä PUT –metodin avulla. (update)

PUT http://localhost:3000/book/1

HTTP http://localhost:3000/book/1

PUT http://localhost:3000/book/1

Params Authorization Headers (8) Body Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON

```
1 {
2   "name": "Testikirja2",
3   "author": "Testaaja2",
4   "isbn": "023456789"
5 }
```

Body Cookies Headers (19) Test Results

{ } JSON Preview Visualize

```
1 {
2   "fieldCount": 0,
3   "affectedRows": 1,
4   "insertId": 0,
5   "info": "Rows matched: 1 Changed: 1 Warnings: 0",
6   "serverStatus": 2,
7   "warningStatus": 0,
8   "changedRows": 1
9 }
```


Pretty-print ☐

```
[{"id_book":1,"name":"Testikirja2","author":"Testaaja2","isbn":"023456789"}]
```

```
mysql> SELECT * FROM book;
+-----+-----+-----+-----+
| id_book | name      | author  | isbn      |
+-----+-----+-----+-----+
| 1       | Testikirja2 | Testaaja2 | 023456789 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Poistetaan testikirja -rivi. (delete)

DEL http://localhost:3000/bc +

 http://localhost:3000/book/1

DELETE ▼ http://localhost:3000/book/1

Params Authorization Headers (6) **Body** Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

1 Ctrl+Alt+P for Postbot

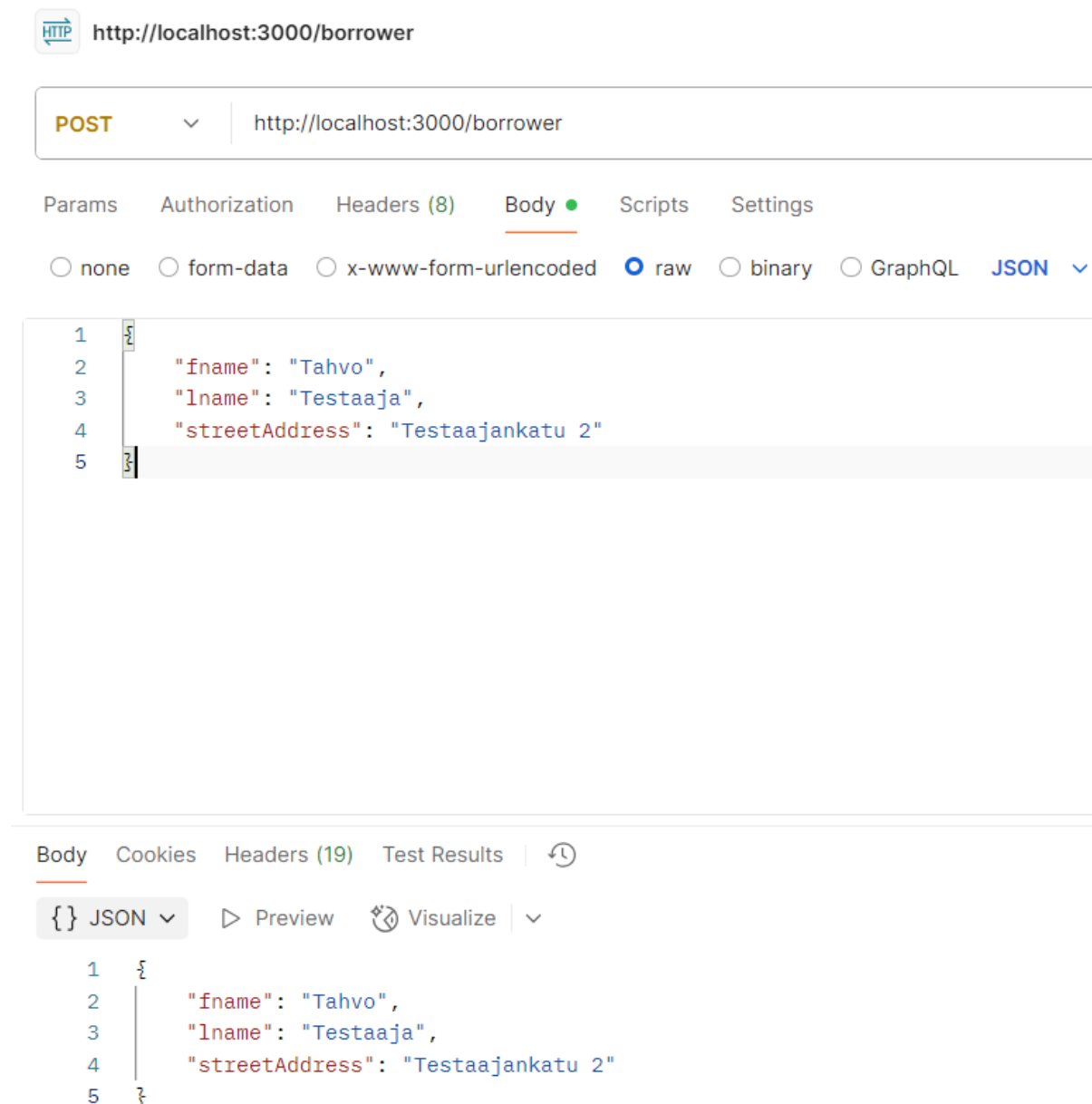
Body Cookies Headers (19) Test Results | ↺

{} JSON ▼ ▶ Preview 🔄 Visualize ▼

```
1 {
2   "fieldCount": 0,
3   "affectedRows": 1,
4   "insertId": 0,
5   "info": "",
6   "serverStatus": 2,
7   "warningStatus": 0,
8   "changedRows": 0
9 }
```

```
mysql> SELECT * FROM book;
Empty set (0.00 sec)
```

Testiksi myös borrower –taulun toimivuutta. Ensin lisäsin “Tahvon”, mutta nimi olikin “väärä”, joten päivitys oikeaan nimeen “Tuire”. Kaveriksi luotu myös “Terttu”.



The screenshot shows a web browser's developer tools interface. At the top, the address bar displays `http://localhost:3000/borrower`. Below it, the **POST** method is selected for the request. The **Body** tab is active, showing a JSON payload:

```
1 {
2   "fname": "Tahvo",
3   "lname": "Testaaja",
4   "streetAddress": "Testaajankatu 2"
5 }
```

Below the body tab, the **Test Results** section shows the same JSON payload in a preview format:

```
1 {
2   "fname": "Tahvo",
3   "lname": "Testaaja",
4   "streetAddress": "Testaajankatu 2"
5 }
```

```
mysql> SELECT * FROM borrower;
+-----+-----+-----+-----+
| id_borrower | fname | lname   | streetAddress |
+-----+-----+-----+-----+
|           1 | Tahvo | Testaaja | Testaajankatu 2 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

PUT http://localhost:3000/borrower/1



http://localhost:3000/borrower/1

PUT



http://localhost:3000/borrower/1

Params

Authorization

Headers (8)

Body

Scripts

Settings

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON



```
1
2 {
3   "fname": "Tuire",
4   "lname": "Testaaja",
5   "streetAddress": "Testaajankatu 2"
6 }
```

Body

Cookies

Headers (19)

Test Results



{ } JSON



Preview

Visualize



```
1 {
2   "fieldCount": 0,
3   "affectedRows": 1,
4   "insertId": 0,
5   "info": "Rows matched: 1 Changed: 1 Warnings: 0",
6   "serverStatus": 2,
7   "warningStatus": 0,
8   "changedRows": 1
9 }
```

```
mysql> SELECT * FROM borrower;
```

id_borrower	fname	lname	streetAddress
1	Tuire	Testaaja	Testaajankatu 2
2	Terttu	Testaaja	Testaajankatu 2

2 rows in set (0.00 sec)