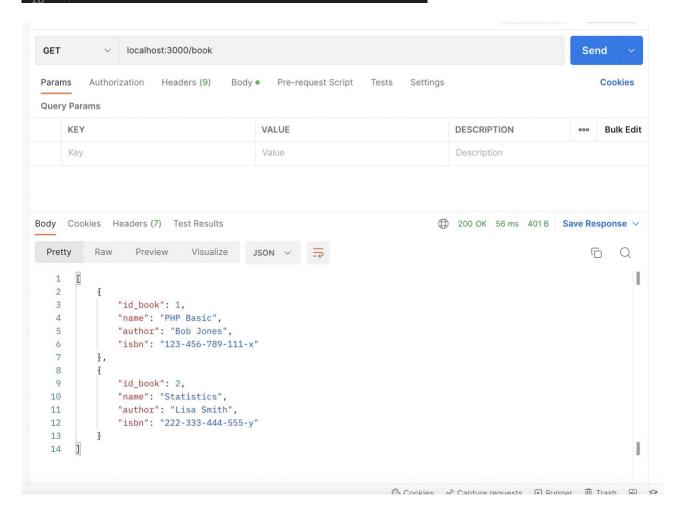
16. Tietokantayhteys ja CRUD Nodella ja Expressillä

GET-metodi:

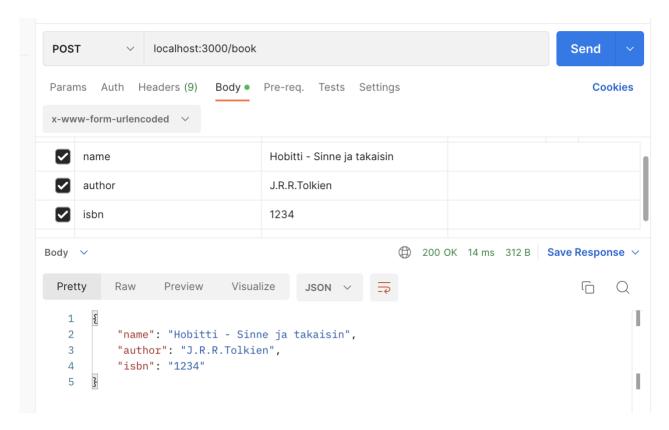
```
fouter.get('/',
function (request, response) {
    book.getAll(function (err, dbResult) {
        if (err) {
            response.json(err);
        } else {
            console.log(dbResult);
            response.json(dbResult);
        }
}

// Console.log(dbResult);
// C
```



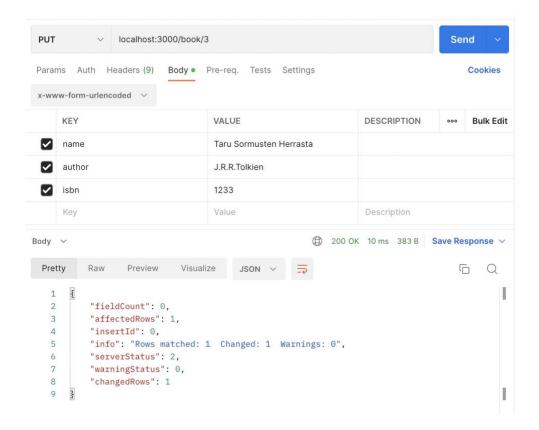
POST-metodi:

```
29
     router.post('/',
30
     function(request, response) {
31
       book.add(request.body, function(err, dbResult) {
32
         if (err) {
33
            response.json(err);
34
         } else {
35
            response.json(request.body);
36
37
       });
38
```



PUT-metodi:

```
router.put('/:id',
function(request, response) {
   book.update(request.params.id, request.body, function(err, dbResult) {
     if (err) {
        response.json(err);
     } else {
        response.json(dbResult);
     }
   });
});
```

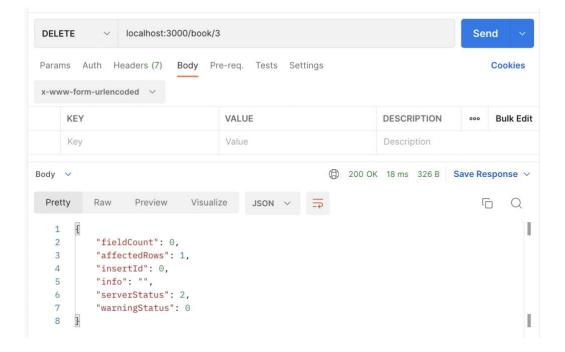


Ennen - jälkeen:

```
mysql> select * from book;
 id_book | name
                                             author
                                                              isbn
            PHP Basic
                                             Bob Jones
                                                              123-456-789-111-x
            Statistics
                                             Lisa Smith
                                                              222-333-444-555-y
                                                              NULL
1234
            NULL
                                             NULL
                                             J.R.R.Tolkien
            Hobitti - Sinne ja takaisin
4 rows in set (0,00 sec)
mysql> select * from book;
 id_book | name
                                            author
                                                            isbn
            PHP Basic
                                             Bob Jones
                                                              123-456-789-111-x
                                             Lisa Smith
J.R.R.Tolkien
J.R.R.Tolkien
                                                              222-333-444-555-y
            Statistics
            Taru Sormusten Herrasta
            Hobitti - Sinne ja takaisin
 rows in set (0,00 sec)
```

DELETE-metodi:

```
router.delete('/:id',
function(request, response) {
  book.delete(request.params.id, function(err, dbResult) {
    if (err) {
        response.json(err);
    } else {
        response.json(dbResult);
    }
});
});
```



Ennen - jälkeen:

```
mysql> select * from book;
 id_book | name
                                          author
                                                         isbn
            PHP Basic
                                           Bob Jones
                                                           123-456-789-111-x
                                                           222-333-444-555-y
        2
            Statistics
                                           Lisa Smith
        3
            Taru Sormusten Herrasta
                                           J.R.R.Tolkien
                                                           1233
            Hobitti - Sinne ja takaisin
                                           J.R.R.Tolkien
                                                           1234
4 rows in set (0,00 sec)
mysql> select * from book;
 id_book
                                           author
                                                          isbn
            PHP Basic
        1
                                                           123-456-789-111-x
                                           Bob Jones
                                                           222-333-444-555-y
            Statistics
                                           Lisa Smith
            Hobitti - Sinne ja takaisin
                                           J.R.R.Tolkien
                                                           1234
3 rows in set (0,00 sec)
```