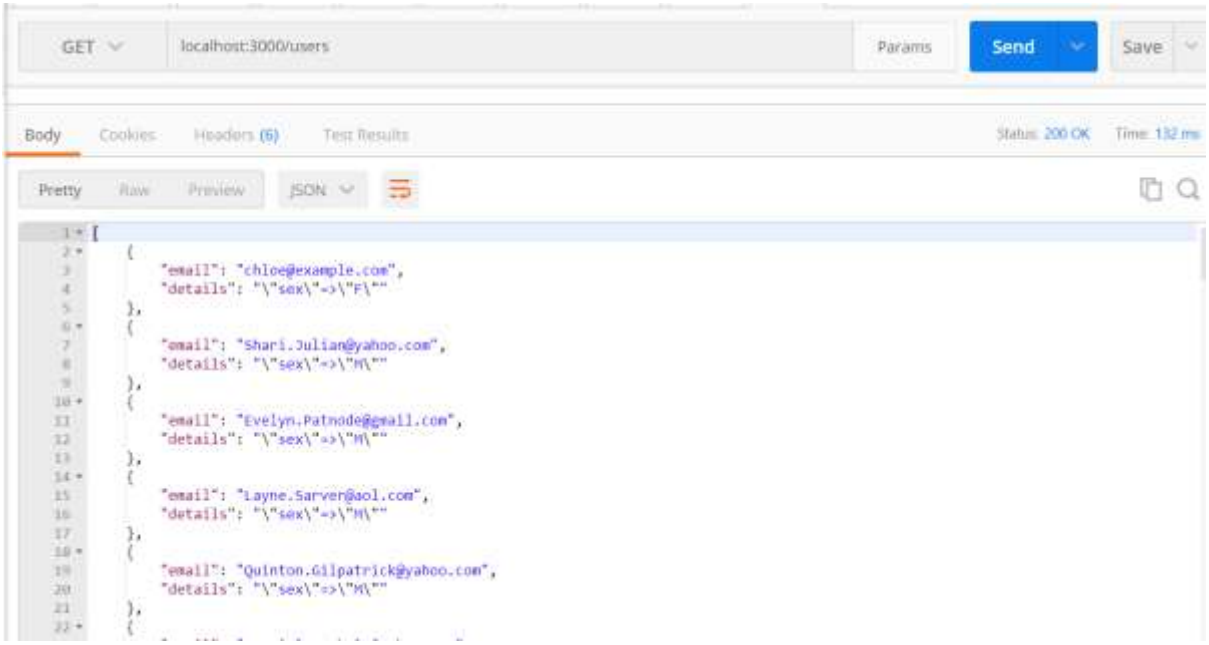
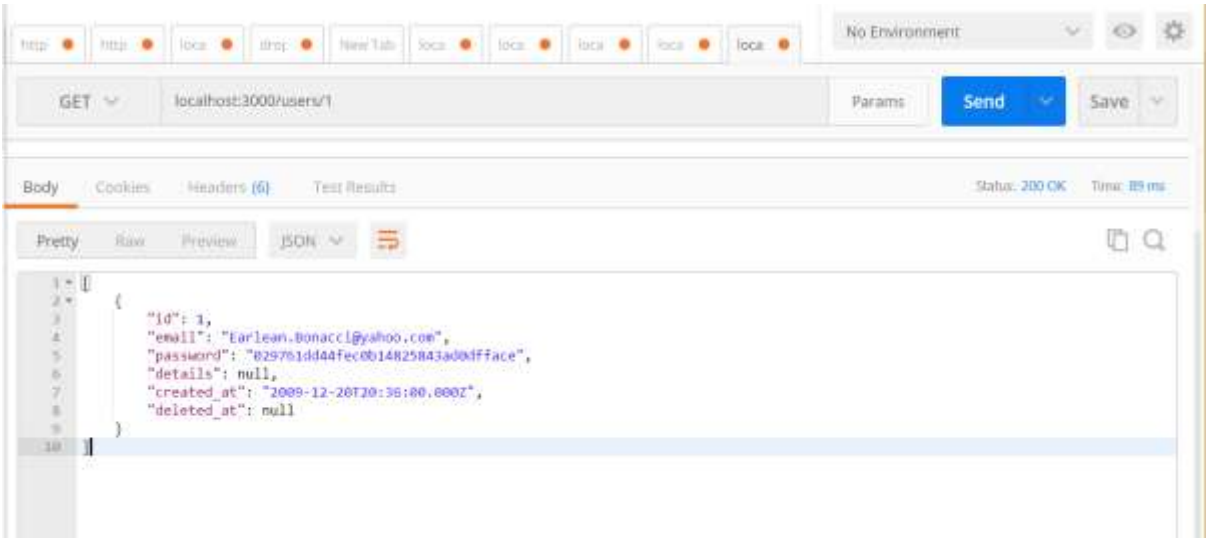
Using Node, Express and Massive create the following HTTP API endpoints serving the following resources as JSON documents

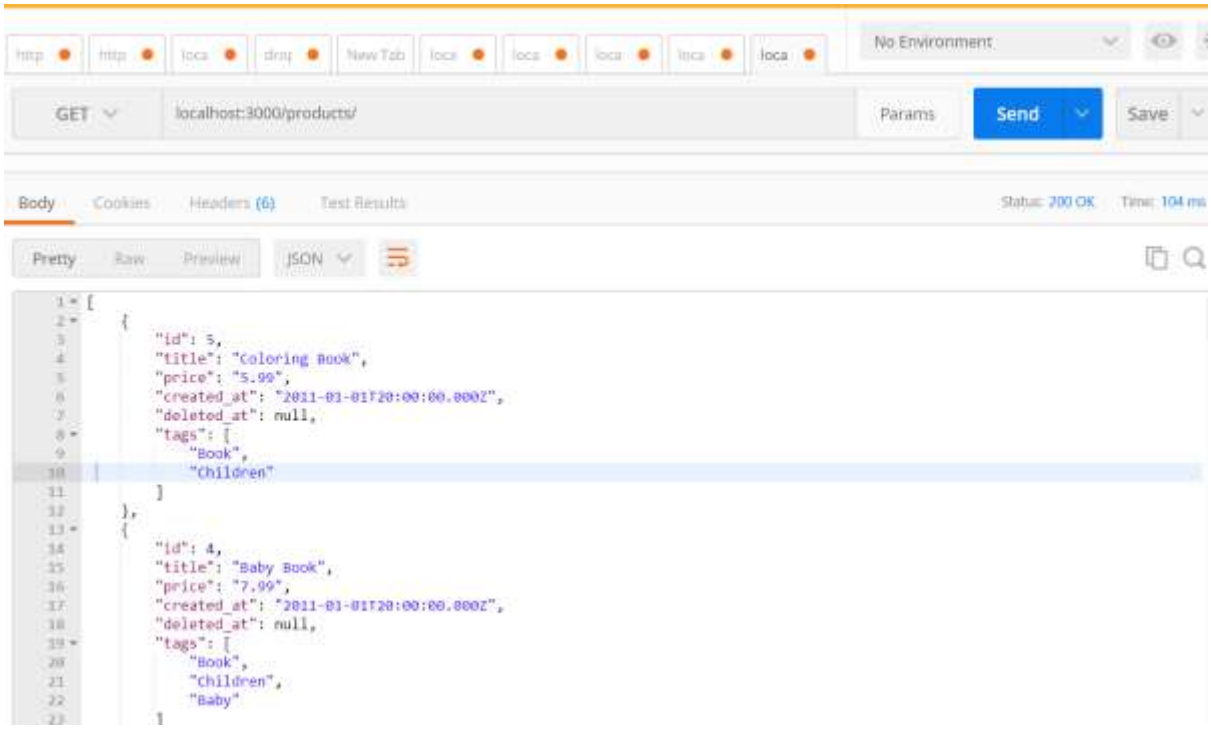
List all users email and sex in order of most recently created. Do not include password hash in your output



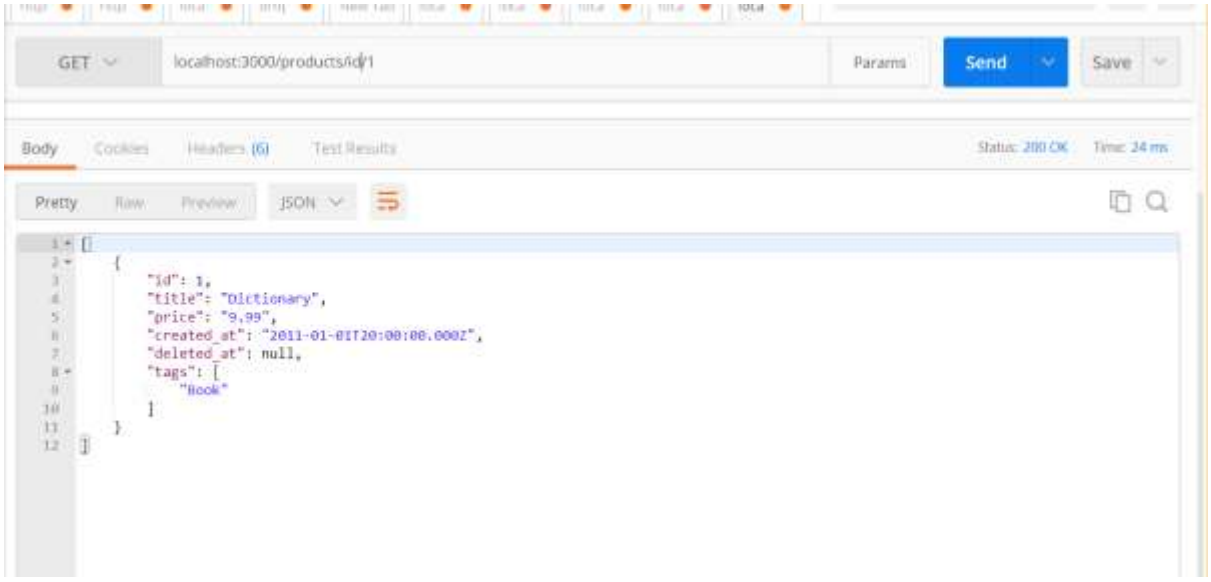
Show above details of the specified user



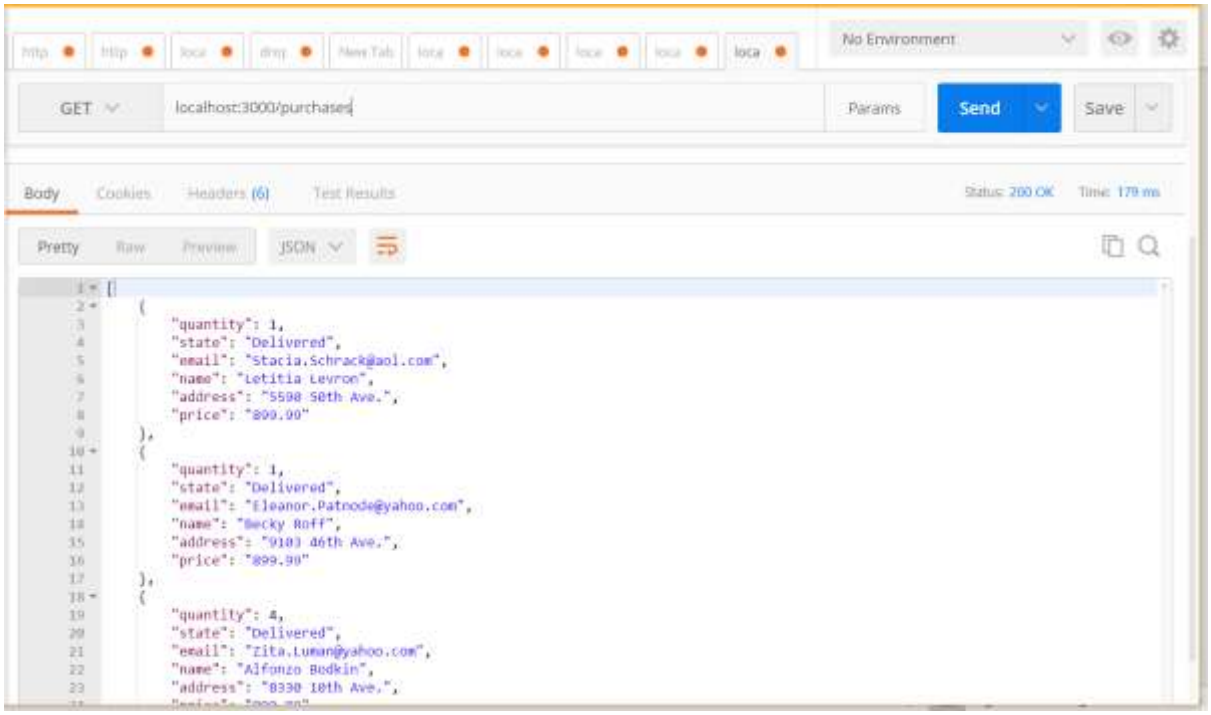
List all products in ascending order of price



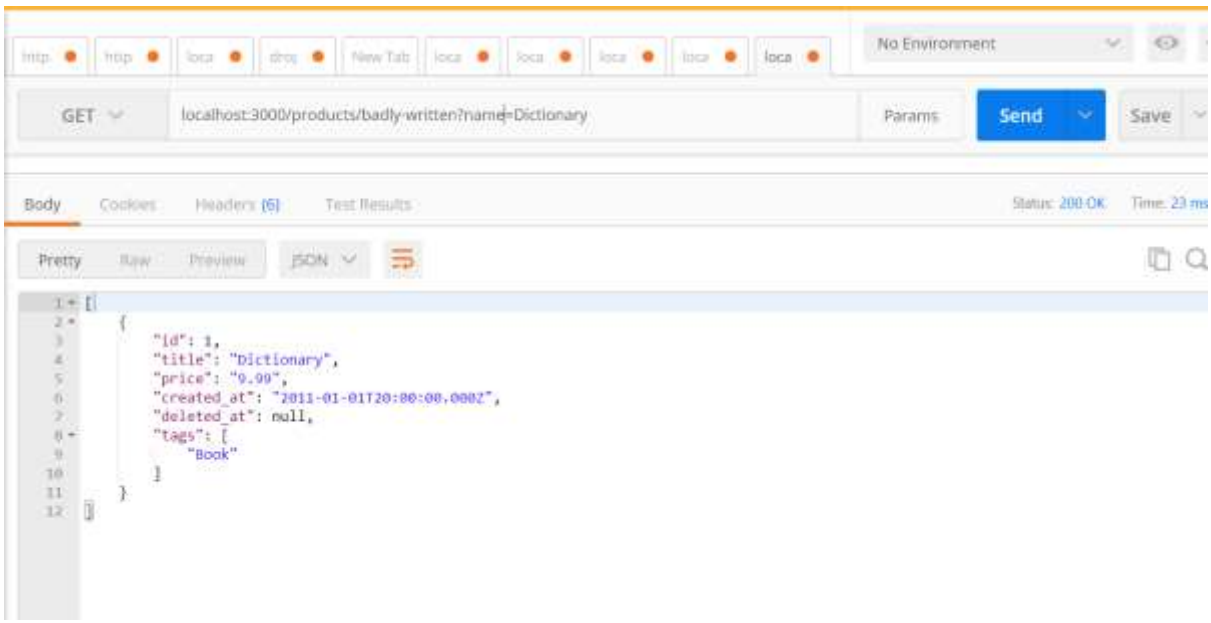
Show details of the specified products

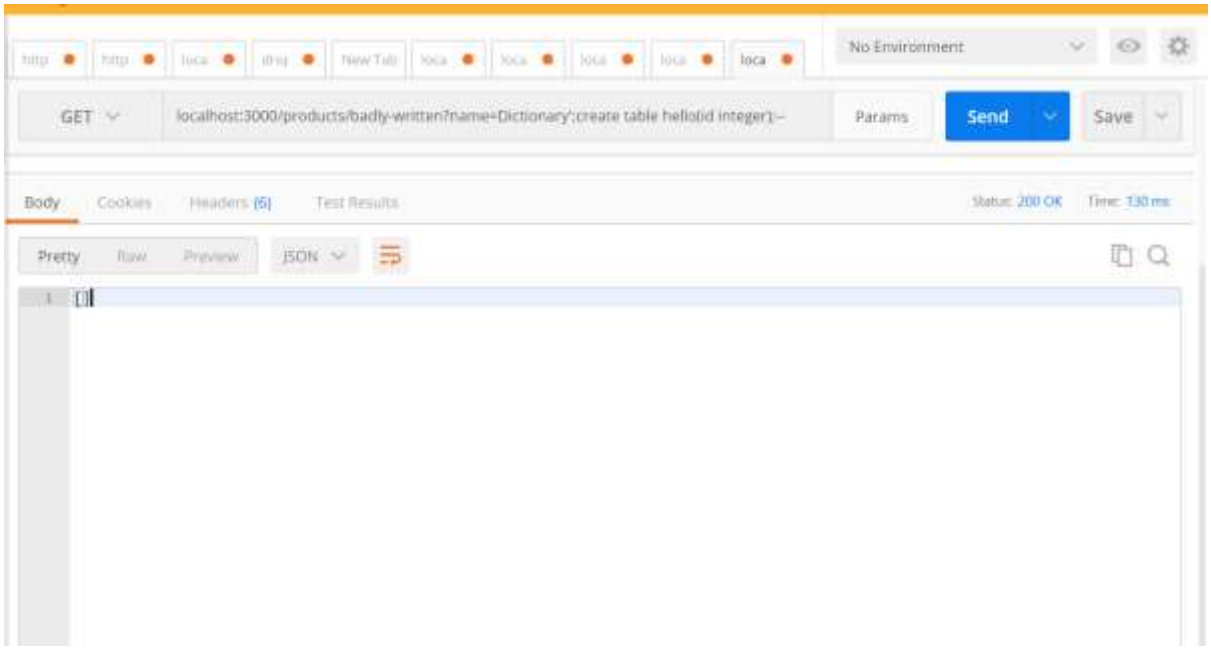


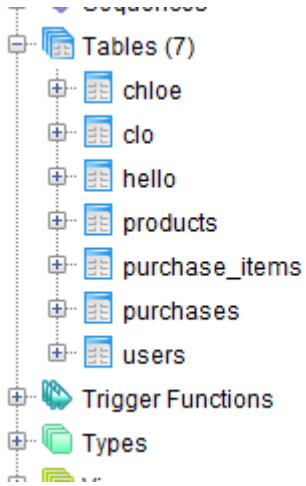
List purchase items to include the receiver's name and, address, the purchaser's email address and the price, quantity and delivery status of the purchased item. Order by price in descending order



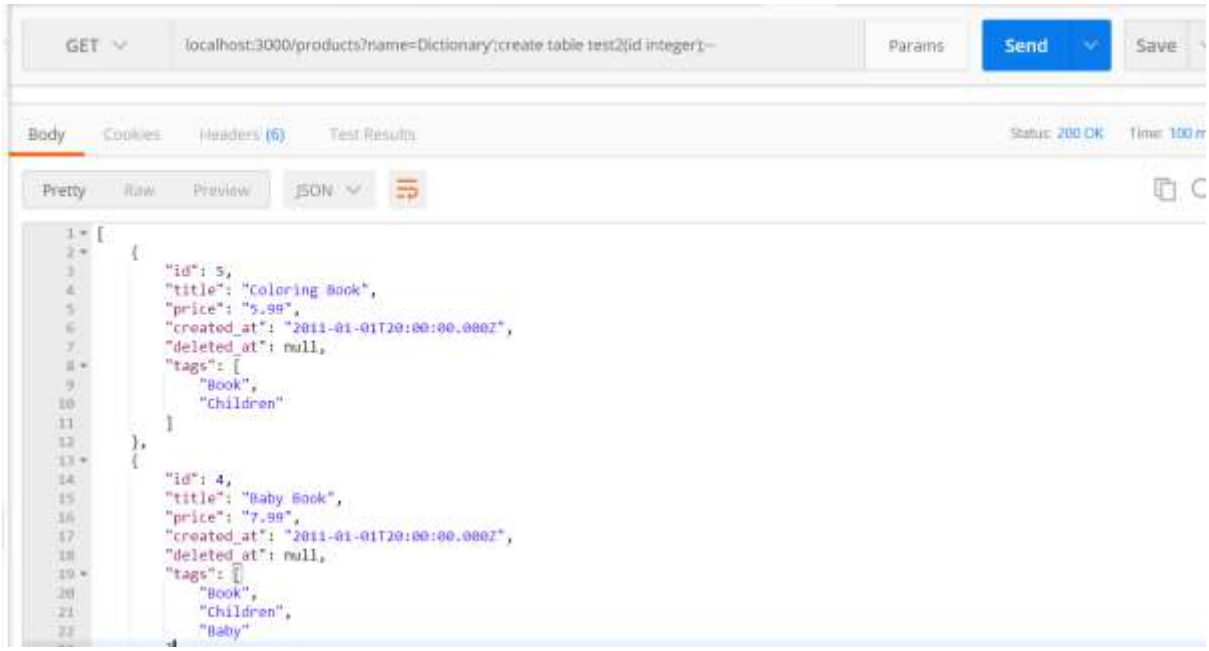
Badly implemented get products by name





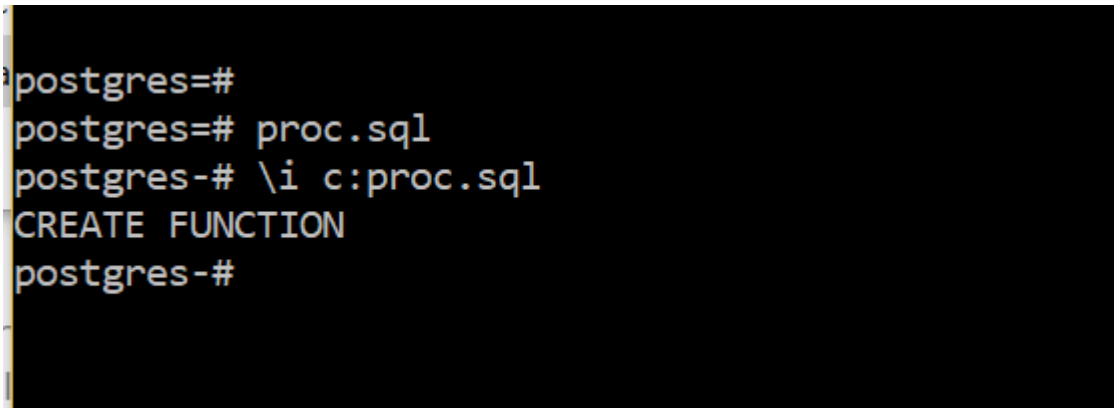


Safe parametrised query- does not create a table

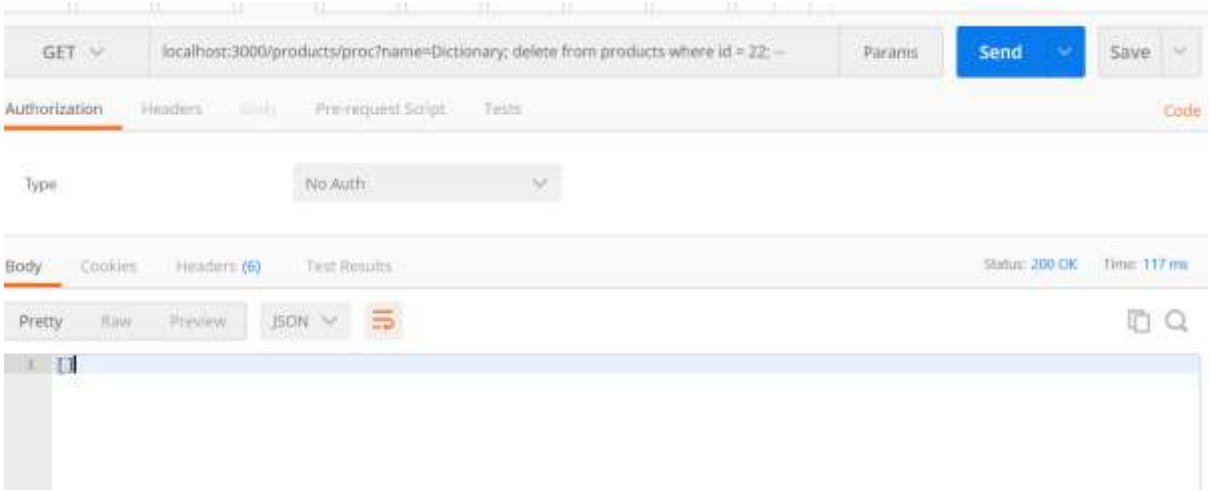


Created a stored procedure – proc.sql

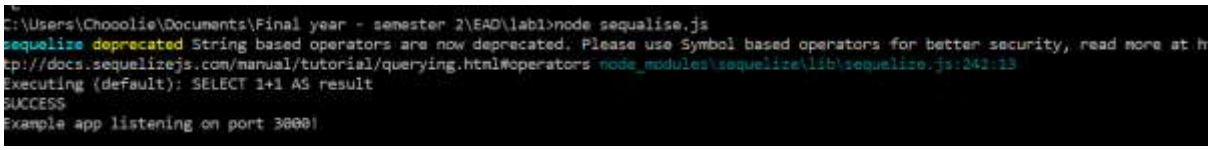
```sql
create or replace function get_prods(x character varying)
returns setof products
AS
$$
    select * from products where title = x;
$$
language sql
```



Run the function and does not allow for sql injection



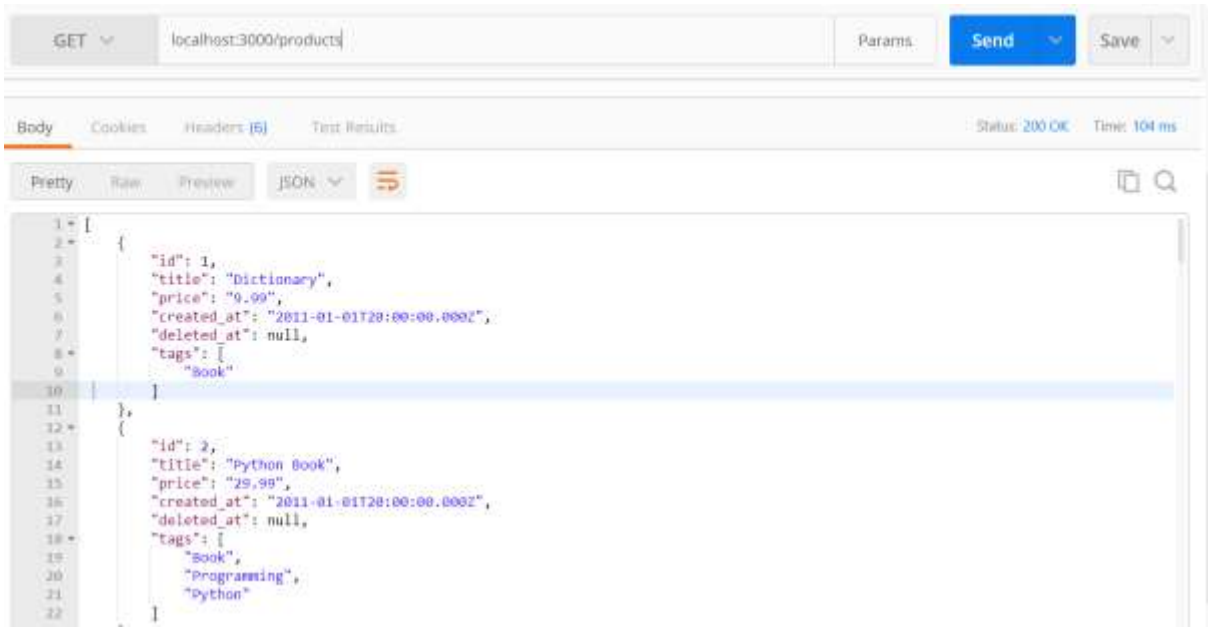
SEQUILIZE PART – CONNECTION SUCCESS



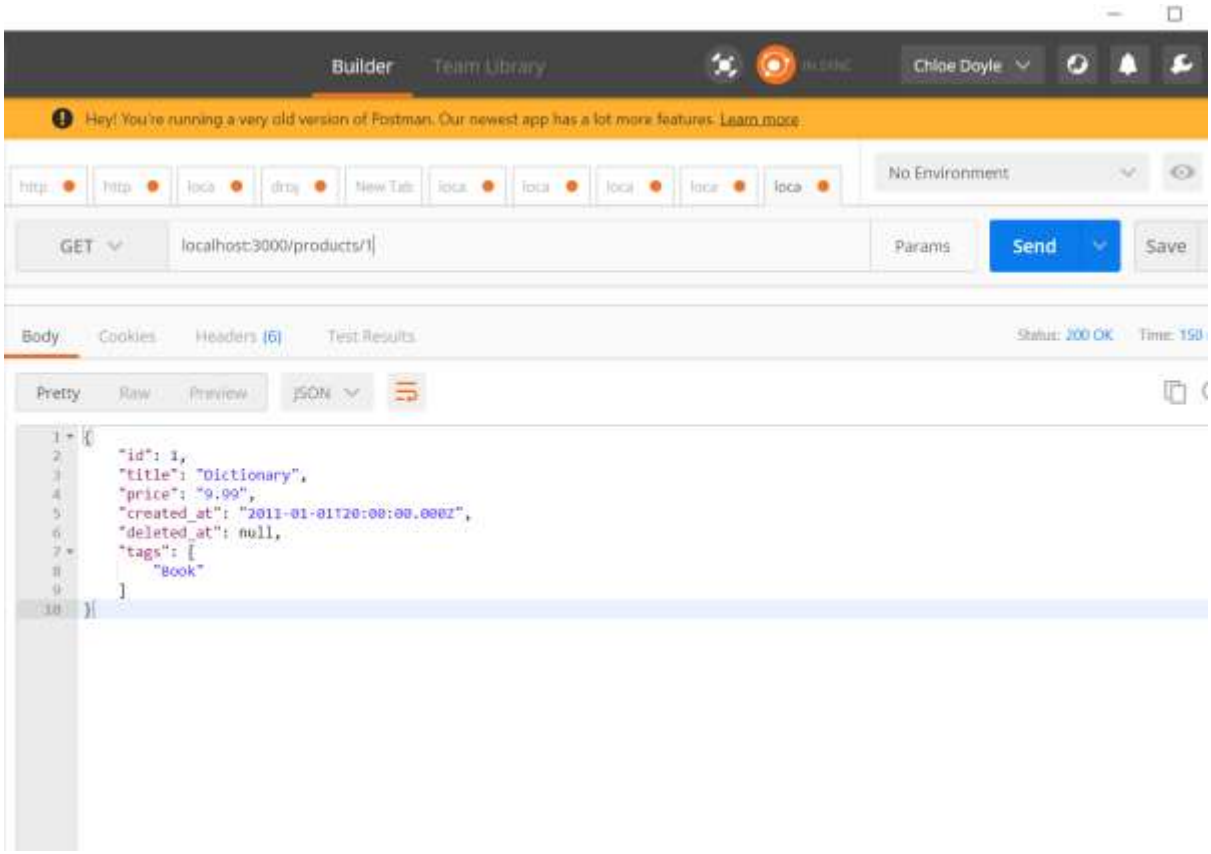
Did this for all tables – purchases, products, users, purchase_items. And then populated them

Doing the next art – get-put-delete, post requests

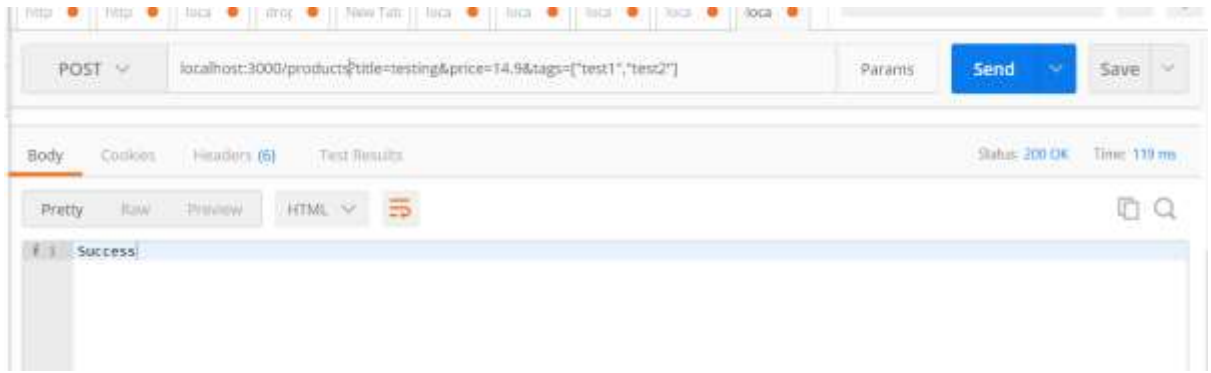
List all products



List all details of specific id

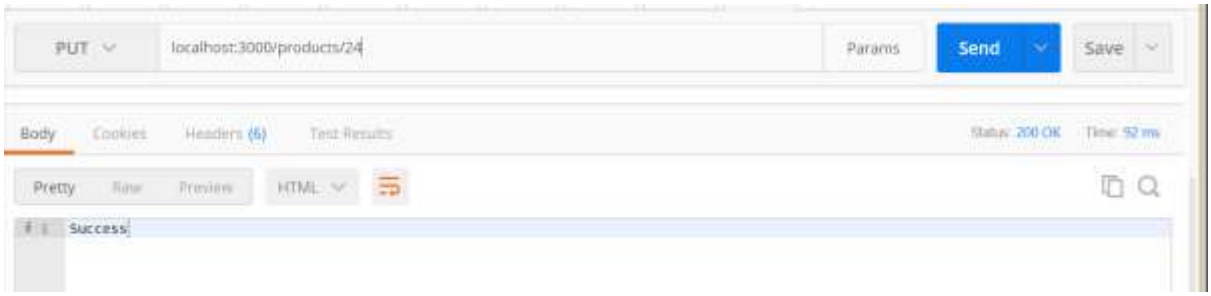


Create a new product instance



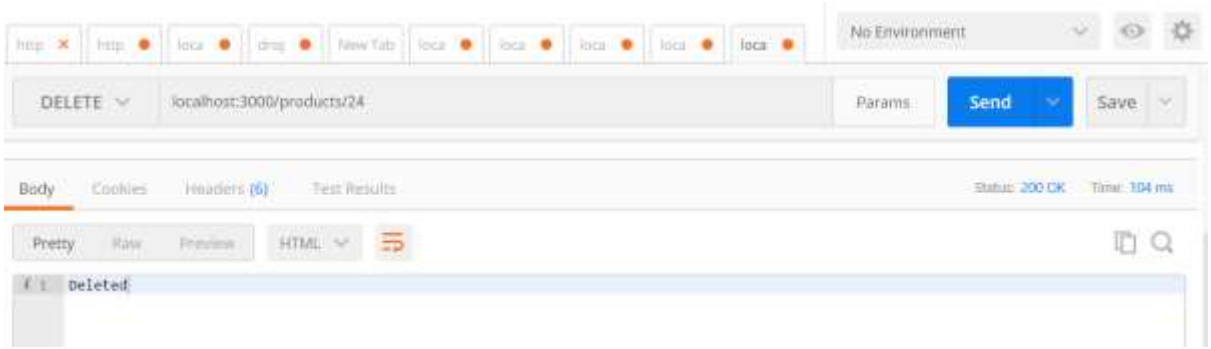
```
postgres=# select * from products;
 id |      title       | price  |          created_at           | deleted_at |          tags
----+------------------+--------+-------------------------------+------------+-------------------------
  1 | Dictionary       |   9.99 | 2011-01-01 20:00:00+00        |            | {Book}
  2 | Python Book      |  29.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Python}
  3 | Ruby Book        |  27.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Ruby}
  4 | Baby Book        |   7.99 | 2011-01-01 20:00:00+00        |            | {Book,Children,Baby}
  5 | Coloring Book    |   5.99 | 2011-01-01 20:00:00+00        |            | {Book,Children}
  6 | Desktop Computer | 499.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  7 | Laptop Computer  | 899.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  8 | MP3 Player       | 108.00 | 2011-01-01 20:00:00+00        |            | {Technology,Music}
  9 | 42" LCD TV       | 499.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 10 | 42" Plasma TV    | 529.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 11 | Classical CD     |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 12 | Holiday CD       |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 13 | Country CD       |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 14 | Pop CD           |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 15 | Electronic CD    |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 16 | Comedy Movie     |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie,Comedy}
 17 | Documentary      |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 18 | Romantic         |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 19 | Drama            |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 20 | Action           |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 21 | Romantic Comedy  |  15.99 | 2019-02-16 14:41:38.239936+00 |            | {Movie}
 22 | Thriller         |    9.9 | 2019-02-17 12:32:17.157213+00 |            | {thriller,scary}
 24 | testing          |   14.9 | 2019-02-17 14:38:43.415518+00 |            | {test1,test2}
(23 rows)
```

Updating the price of item 24




```
postgres=# select * from products;
 id |      title       | price  |          created_at           | deleted_at |          tags
----+------------------+--------+-------------------------------+------------+-------------------------
  1 | Dictionary       |   9.99 | 2011-01-01 20:00:00+00        |            | {Book}
  2 | Python Book      |  29.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Python}
  3 | Ruby Book        |  27.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Ruby}
  4 | Baby Book        |   7.99 | 2011-01-01 20:00:00+00        |            | {Book,Children,Baby}
  5 | Coloring Book    |   5.99 | 2011-01-01 20:00:00+00        |            | {Book,Children}
  6 | Desktop Computer | 499.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  7 | Laptop Computer  | 899.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  8 | MP3 Player       | 108.00 | 2011-01-01 20:00:00+00        |            | {Technology,Music}
  9 | 42" LCD TV       | 499.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 10 | 42" Plasma TV    | 529.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 11 | Classical CD     |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 12 | Holiday CD       |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 13 | Country CD       |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 14 | Pop CD           |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 15 | Electronic CD    |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 16 | Comedy Movie     |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie,Comedy}
 17 | Documentary      |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 18 | Romantic         |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 19 | Drama            |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 20 | Action           |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 21 | Romantic Comedy  |  15.99 | 2019-02-16 14:41:38.239936+00 |            | {Movie}
 22 | Thriller         |    9.9 | 2019-02-17 12:32:17.157213+00 |            | {thriller,scary}
 24 | testing          |  15.99 | 2019-02-17 14:38:43.415518+00 |            | {test1,test2}
(23 rows)
```

Remove an existing product – deleting item 24




```
postgres=# select * from products;
 id |       title        | price  |          created_at           | deleted_at |           tags
----+--------------------+--------+-------------------------------+------------+---------------------------
  1 | Dictionary         |   9.99 | 2011-01-01 20:00:00+00        |            | {Book}
  2 | Python Book        |  29.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Python}
  3 | Ruby Book          |  27.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Ruby}
  4 | Baby Book          |   7.99 | 2011-01-01 20:00:00+00        |            | {Book,Children,Baby}
  5 | Coloring Book      |   5.99 | 2011-01-01 20:00:00+00        |            | {Book,Children}
  6 | Desktop Computer   | 499.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  7 | Laptop Computer    | 899.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  8 | MP3 Player         | 108.00 | 2011-01-01 20:00:00+00        |            | {Technology,Music}
  9 | 42" LCD TV         | 499.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 10 | 42" Plasma TV      | 529.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 11 | Classical CD       |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 12 | Holiday CD         |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 13 | Country CD         |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 14 | Pop CD             |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 15 | Electronic CD      |   9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 16 | Comedy Movie       |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie,Comedy}
 17 | Documentary        |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 18 | Romantic           |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 19 | Drama              |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 20 | Action             |  14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 21 | Romantic Comedy    |  15.99 | 2019-02-16 14:41:38.239936+00 |            | {Movie}
 22 | Thriller           |    9.9 | 2019-02-17 12:32:17.157213+00 |            | {thriller,scary}
(22 rows)
```

```
var purchases = sequelize.define('purchases',
{
    id:
    {
        type: Sequelize.INTEGER,
        primaryKey: true,
        autoIncrement: true
    },
    created_at:
    {
     type: Sequelize.DATE,
      defaultValue: sequelize.literal('NOW()')
    },
    name:
    {
        type: Sequelize.STRING
    },
    address:
    {
        type: Sequelize.STRING
    },
    state:
    {
        type: Sequelize.STRING
    },
    zipcode:
    {
        type: Sequelize.INTEGER
    },
    user_id:
```

Inserting into products

New product create = romantic comedy

```
postgres=# select * from products;
 id |      title       | price |          created_at           | deleted_at |          tags
----+------------------+-------+-------------------------------+------------+-------------------------
  1 | Dictionary       |  9.99 | 2011-01-01 20:00:00+00        |            | {Book}
  2 | Python Book      | 29.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Python}
  3 | Ruby Book        | 27.99 | 2011-01-01 20:00:00+00        |            | {Book,Programming,Ruby}
  4 | Baby Book        |  7.99 | 2011-01-01 20:00:00+00        |            | {Book,Children,Baby}
  5 | Coloring Book    |  5.99 | 2011-01-01 20:00:00+00        |            | {Book,Children}
  6 | Desktop Computer | 499.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  7 | Laptop Computer  | 899.99 | 2011-01-01 20:00:00+00        |            | {Technology}
  8 | MP3 Player       | 108.00 | 2011-01-01 20:00:00+00        |            | {Technology,Music}
  9 | 42" LCD TV       | 499.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 10 | 42" Plasma TV    | 529.00 | 2011-01-01 20:00:00+00        |            | {Technology,TV}
 11 | Classical CD     |  9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 12 | Holiday CD       |  9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 13 | Country CD       |  9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 14 | Pop CD           |  9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 15 | Electronic CD    |  9.99 | 2011-01-01 20:00:00+00        |            | {Music}
 16 | Comedy Movie     | 14.99 | 2011-01-01 20:00:00+00        |            | {Movie,Comedy}
 17 | Documentary      | 14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 18 | Romantic         | 14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 19 | Drama            | 14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 20 | Action           | 14.99 | 2011-01-01 20:00:00+00        |            | {Movie}
 21 | Romantic Comedy  | 15.99 | 2019-02-16 14:41:38.239936+00 |            | {Movie}
(21 rows)
```

Did and tested for all others too – like this

```
users.create(
{
  email: 'chloe@example.com' ,
  password: '1234',
  details: 'sex=>F'
}).then( users => {
  users.save()
}).catch(err => {
  console.log(err)
})
```