Nama : Aswangga Bhanu Rizqullah

Kelas: 5 A / Kelompok 3

Homework Week 8

Buatlah sebuah aplikasi Express JS yang dapat menampilkan data text pada halaman web yang didapatkan dari sampel data ini dan schema di sini sebagai referensi.

Soal 1: Lakukan seeding untuk menambahkan 5 data baru pada data table actor yang disediakan

Sebelum dilakukan Seeding

	actor_id [PK] integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
197	197	Reese	West	2013-05-26 14:47:57.62
198	198	Mary	Keitel	2013-05-26 14:47:57.62
199	199	Julia	Fawcett	2013-05-26 14:47:57.62
200	200	Thora	Temple	2013-05-26 14:47:57.62

Proses Seeding

```
src > utils > us seeding.js > ...
      const fs = require('fs');
      const pool = require('./database');
      const seedQuery = fs.readFileSync('src/utils/seeding.sql', { encoding: 'utf-8' });
      pool.query(seedQuery, (error, result) => {
              throw error;
          console.log('Seeding Complete');
          pool.end();

    seeding.sql X

                                  package.json
us seeding.js
src > utils > ⊌ seeding.sql
       INSERT INTO actor (actor_id, first_name, last_name, last_update) VALUES
       (201, 'Aswangga', 'Bhanu', NOW()),
       (202, 'Java', 'Moreno', NOW()),
       (203, 'Raul', 'Aksal', NOW()),
       (204, 'Kennedy', 'Lewi', NOW()),
       (205, 'Yoga', 'Ardiansyah', NOW());
        "scripts": {
          "seed": "node src/utils/seeding.js",
           "test": "echo \"Error: no test specified\" && exit 1"
```

```
aswan@Bhanu MSYS ~/Documents/Rakamin/HomeWork/HW8 (main)
$ npm run seed
> hw8@1.0.0 seed
> node src/utils/seeding.js
Seeding Complete
```

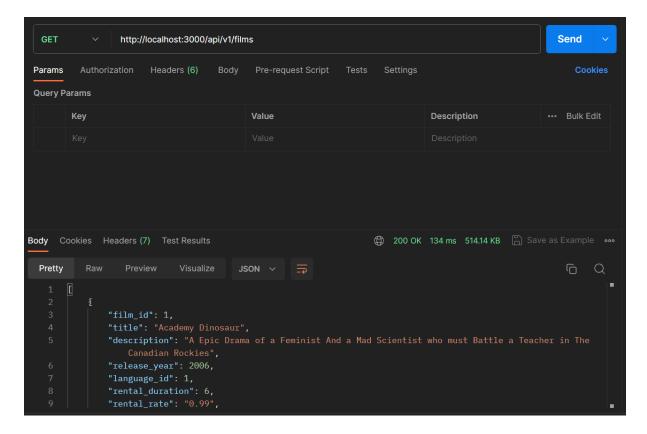
Setelah dilakukan Seeding

	actor_id [PK] integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
200	200	Thora	Temple	2013-05-26 14:47:57.62
201	201	Aswangga	Bhanu	2023-10-06 13:30:25.531119
202	202	Java	Moreno	2023-10-06 13:30:25.531119
203	203	Raul	Aksal	2023-10-06 13:30:25.531119
204	204	Kennedy	Lewi	2023-10-06 13:30:25.531119
205	205	Yoga	Ardiansyah	2023-10-06 13:30:25.531119

Soal 2: Buatlah query untuk menampilkan data pada database sebagai berikut.

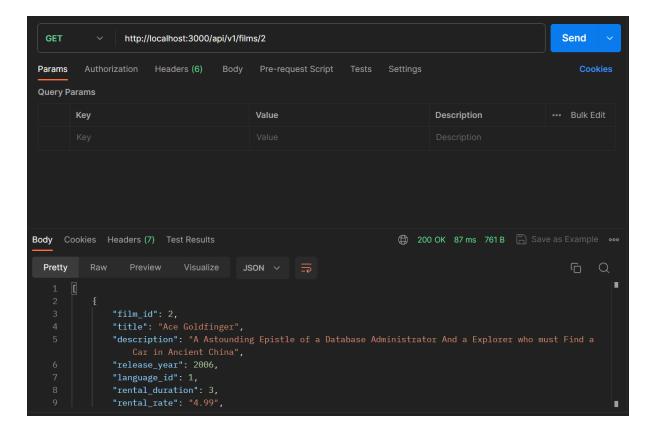
1. Menampilkan data seluruh list film





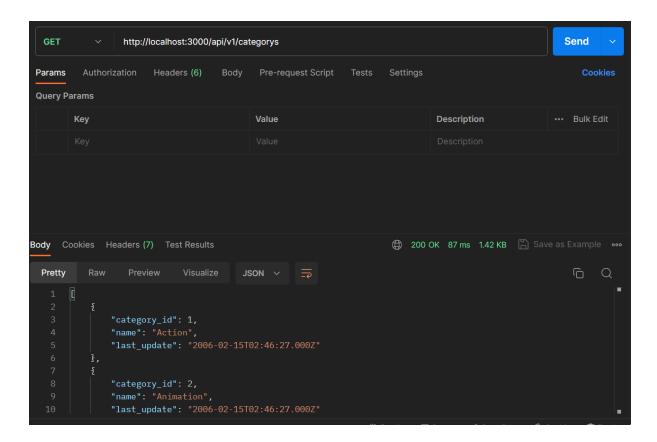
2. Menampilkan data film tertentu berdasarkan id

```
← → C ① localhost3000/api/v1/films/2
                                                                                                                        년 ☆ 🛊 🛚 🧥 :
     // 20231006135829
                                                                                                                                        ₽.
      // http://localhost:3000/api/v1/films/2
                                                                                                                                        RHW
4 * [
5 🔻
         "film_id": 2,
         "title": "Ace Goldfinger",
          "description": "A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China",
          "release_year": 2006,
10
         "language_id": 1,
11
         "rental_duration": 3,
12
         "rental_rate": "4.99",
         "length": 48,
13
          "replacement_cost": "12.99",
14
         "rating": "G",
15
16
         "last_update": "2013-05-26T07:50:58.951Z",
17 🔻
          "special_features": [
18
            "Trailers",
19
           "Deleted Scenes"
20
          "fulltext": "'ace':1 'administr':9 'ancient':19 'astound':4 'car':17 'china':20 'databas':8 'epistl':5 'explor':12 'find':15
21
      'goldfing':2 'must':14"
22
23
```



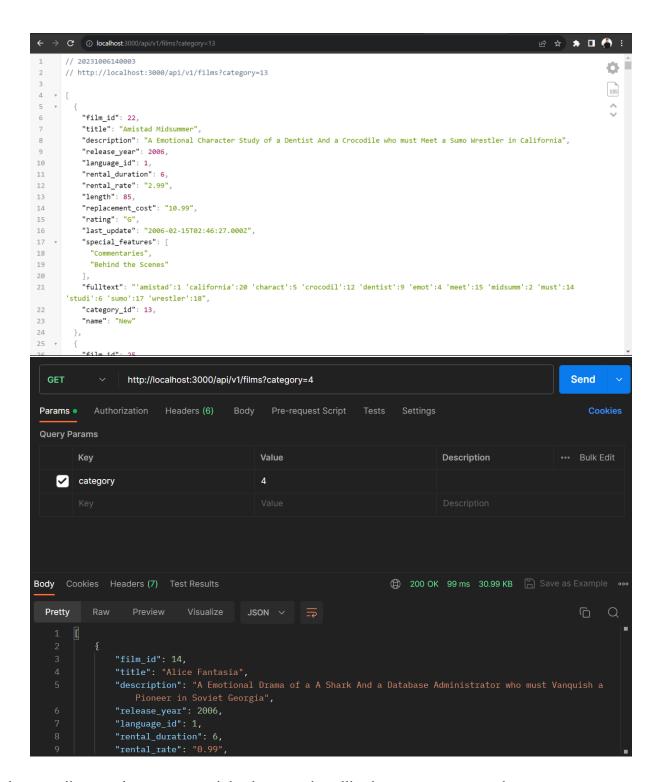
3. Menampilkan data list category

```
← → C (i) localhost:3000/api/v1/categorys
                                                                                                                     e 🖈 🖿 🗗 🧥 :
    // 20231006135910
                                                                                                                                     Q:
     // http://localhost:3000/api/v1/categorys
                                                                                                                                     RHW
4 * [
5 🔻
         "category_id": 1,
6
         "name": "Action",
8
         "last_update": "2006-02-15T02:46:27.000Z"
9
10 🔻
         "category_id": 2,
11
         "name": "Animation",
12
          "last_update": "2006-02-15T02:46:27.000Z"
13
14
15 🔻
         "category_id": 3,
16
         "name": "Children",
17
         "last_update": "2006-02-15T02:46:27.000Z"
18
19
20 🔻
         "category_id": 4,
21
22
          "name": "Classics",
          "last_update": "2006-02-15T02:46:27.000Z"
23
24
25 ₹
26
          "category_id": 5,
```



4. Menampilkan data list film berdasarkan category

```
← → C (i) localhost 3000/api/v1/films?category=5
                                                                                                                         e ☆ * ■ 👫 :
       // 20231006135934
                                                                                                                                          O E
       // http://localhost:3000/api/v1/films?category=5
2
                                                                                                                                         RHW
4 *
5
           "film_id": 7,
6
           "title": "Airplane Sierra",
7
           "description": "A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat",
8
           "release_year": 2006,
           "language_id": 1,
10
           "rental_duration": 6,
11
           "rental_rate": "4.99",
12
           "length": 62,
13
           "replacement_cost": "28.99",
14
           "rating": "PG-13",
"last_update": "2006-02-15T02:46:27.000Z",
15
16
17 ×
           "special_features": [
18
             "Trailers"
19
             "Deleted Scenes"
20
           "fulltext": "'airplan':1 'boat':20 'butler':11,16 'discov':14 'hunter':8 'jet':19 'must':13 'saga':5 'sierra':2
21
       'touch':4"
22
           "category_id": 5,
23
           "name": "Comedy"
24
25 ▼
           "film id": 28
```



Implementasikan routing yang sesuai dan benar pada aplikasi yang teman-teman buat.

Soal 3: Lakukan migrasi database dengan menambahkan column age pada tabel actor yang tersedia

Sebelum melakukan migrasi database

	actor_id [PK] integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
200	200	Thora	Temple	2013-05-26 14:47:57.62
201	201	Aswangga	Bhanu	2023-10-06 13:30:25.531119
202	202	Java	Moreno	2023-10-06 13:30:25.531119
203	203	Raul	Aksal	2023-10-06 13:30:25.531119
204	204	Kennedy	Lewi	2023-10-06 13:30:25.531119
205	205	Yoga	Ardiansyah	2023-10-06 13:30:25.531119

Proses Migrasi

```
{..} database.json X

{..} database.json > ...

1
2
    "dev":{
        "driver": "pg",
        "user": "postgres",
        "password": "Bismillah27",
        "host": "localhost",
        "database": "dvdrental"
        8
        }
        9
}
```

```
aswan@Bhanu MSYS ~/Documents/Rakamin/HomeWork/HW8 (main)

$ db-migrate create initialization --sql-file

[INFO] Created migration at C:\Users\aswan\Documents\Rakamin\HomeWork\HW8\migrations\20231006065004-initialization.js

[INFO] Created migration up sql file at C:\Users\aswan\Documents\Rakamin\HomeWork\HW8\migrations\sqls\20231006065004-initialization-up.sql

[INFO] Created migration down sql file at C:\Users\aswan\Documents\Rakamin\HomeWork\HW8\migrations\sqls\20231006065004-initialization-up.sql

[INFO] Created migration down sql file at C:\Users\aswan\Documents\Rakamin\HomeWork\HW8\migrations\sqls\20231006065004-initialization-down.sql

aswan@Bhanu MSYS ~/Documents/Rakamin/HomeWork/HW8 (main)

$ db-migrate up

received data: ALTER TABLE actor

ADD COLUMN age integer;

[INFO] Processed migration 20231006065004-initialization

INFO] Done
```

Sesudah melakukan migrasi database

	actor_id [PK] integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone	age integer
1	1	Penelope	Guiness	2013-05-26 14:47:57.62	[null]
2	2	Nick	Wahlberg	2013-05-26 14:47:57.62	[null]
3	3	Ed	Chase	2013-05-26 14:47:57.62	[null]
4	4	Jennifer	Davis	2013-05-26 14:47:57.62	[null]
5	5	Johnny	Lollobrigida	2013-05-26 14:47:57.62	[null]
6	6	Bette	Nicholson	2013-05-26 14:47:57.62	[null]
_	_	•		2212 25 27 11 15 55 12	r

Link Repository Github

 $\underline{https://github.com/Bhanurzh/RakaminFSWD/tree/main/HW8}$