

## W12-P1: Create foreign key from cat\_id (shop2\_xx ) to id (category2\_xx)

The screenshot shows the pgAdmin 4 interface. On the left, the 'shop2\_28' table is selected under the 'Tables' folder. The 'Constraints' tab for 'shop2\_28' is active, showing a foreign key constraint named 'fkey1'. This constraint links the 'cat\_id' column of 'shop2\_28' to the 'id' column of the 'public.category2\_28' table. The 'Columns' column shows '(cat\_id) -> (id)'. The 'Referenced Table' column shows 'public.category2\_28'.

## W12-P2: give SQL to get products based on a category

The screenshot shows the pgAdmin 4 interface with a SQL query executed. The query is:

```
1 select C.name as category, S.id, S.name, price, S.local_url
2 from category2_28 as C, shop2_28 as S
3 where S.cat_id = C.id and C.name = 'sneakers'
4
```

The results are displayed in a table with 8 rows and 5 columns:

	category	id	name	price	local_url
1	sneakers	20	Adidas NMD	220	/img/sneakers/adidas-nmd.png
2	sneakers	21	Adidas Yeezy	280	/img/sneakers/yeezy.png
3	sneakers	22	Black Converse	110	/img/sneakers/black-converse.png
4	sneakers	23	Nike White AirForce	160	/img/sneakers/white-nike-high-tops.png
5	sneakers	24	Nike Red High Tops	160	/img/sneakers/nikes-red.png
6	sneakers	25	Nike Brown High Tops	160	/img/sneakers/nike-brown.png
7	sneakers	26	Air Jordan Limited	190	/img/sneakers/nike-funky.png
8	sneakers	27	Timberlands	200	/img/sneakers/timberlands.png

The status bar at the bottom indicates 'Total rows: 8 of 8' and 'Query complete 00:00:00.423'.

## W12-P3: implement route /crown2\_xx/shop2\_xx/:category, and show json data regarding some category in Browser

```
routes > JS crown2_28.js > router.get('/shop2_28/:category') callback
18
19
20
21
22 router.get('/shop2_28/:category', async function (req, res, next){
23   console.log('category', req.params.category);
24   try {
25     let results = await db.query(
26       select C.name as category, S.id, S.name, price, S.local_url
27       from category_28 as C, shop2_28 as S
28       where S.cat_id = C.id and C.name = $1
29     , [req.params.category]);
30     console.log('results', JSON.stringify(results.rows));
31     res.json(results.rows);
32     /*res.render('crown2_28/shop2_28',{
33       data:results.rows,
34       category: req.params.category,
35       title: 'XuEn Wu',
36       ID: '410410228',
37     })*/
38   } catch(error){
39     console.log(error);
40   }
41 }
```


```
Web server running on port 3000
category sneakers
results [{"category":"sneakers","id":20,"name":"Adidas NMD","price":220,"local_url":"/img/sneakers/adidas-nmd.png"}, {"category":"sneakers","id":21,"name":"Adidas Yeezy","price":280,"local_url":"/img/sneakers/yeezy.png"}, {"category":"sneakers","id":22,"name":"Black Converse","price":110,"local_url":"/img/sneakers/black-converse.png"}, {"category":"sneakers","id":23,"name":"Nike White AirForce","price":160,"local_url":"/img/sneakers/nike-white-airforce.png"}, {"category":"sneakers","id":24,"name":"Nike Red High Tops","price":160,"local_url":"/img/sneakers/nike-red-high-tops.png"}, {"category":"sneakers","id":25,"name":"Nike Brown High Tops","price":160,"local_url":"/img/sneakers/nike-brown-high-tops.png"}, {"category":"sneakers","id":26,"name":"Air Jordan Limited","price":190,"local_url":"/img/sneakers/air-jordan-limited.png"}, {"category":"sneakers","id":27,"name":"Timberlands","price":200,"local_url":"/img/sneakers/timberlands.png"}]
```

localhost:3000/crown2\_28/shop2\_28/sneakers

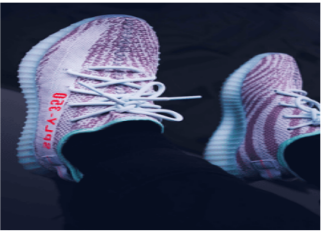
```
1 // 20230503145503
2 // http://localhost:3000/crown2_28/shop2_28/sneakers
3
4 [
5   {
6     "category": "sneakers",
7     "id": 20,
8     "name": "Adidas NMD",
9     "price": 220,
10    "local_url": "/img/sneakers/adidas-nmd.png"
11  },
12  {
13    "category": "sneakers",
14    "id": 21,
15    "name": "Adidas Yeezy",
16    "price": 280,
17    "local_url": "/img/sneakers/yeezy.png"
18  },
19  {
20    "category": "sneakers",
21    "id": 22,
22    "name": "Black Converse",
23    "price": 110,
24    "local_url": "/img/sneakers/black-converse.png"
25  },
26  {
27    "category": "sneakers",
28    "id": 23,
29    "name": "Nike White AirForce",
30    "price": 160,
31    "local_url": "/img/sneakers/nike-white-airforce.png"
32  },
33  {
34    "category": "sneakers",
35    "id": 24,
36    "name": "Nike Red High Tops",
37    "price": 160,
38    "local_url": "/img/sneakers/nike-red-high-tops.png"
39  },
40  {
41    "category": "sneakers",
42    "id": 25,
43    "name": "Nike Brown High Tops",
44    "price": 160,
45    "local_url": "/img/sneakers/nike-brown-high-tops.png"
46  },
47  {
48    "category": "sneakers",
49    "id": 26,
50    "name": "Air Jordan Limited",
51    "price": 190,
52    "local_url": "/img/sneakers/air-jordan-limited.png"
53  },
54  {
55    "category": "sneakers",
56    "id": 27,
57    "name": "Timberlands",
58    "price": 200,
59    "local_url": "/img/sneakers/timberlands.png"
60  }
61 ]
```

## W12-P4: implement route /crown2\_xx/shop2\_xx/:category, and show in shop2\_xx.ejs


localhost:3000/crown2\_28/shop2\_28/sneakers




Adidas NMD 220




Adidas Yeezy 280




Black Converse 110




Nike White AirForce 160




Nike Red High Tops 160



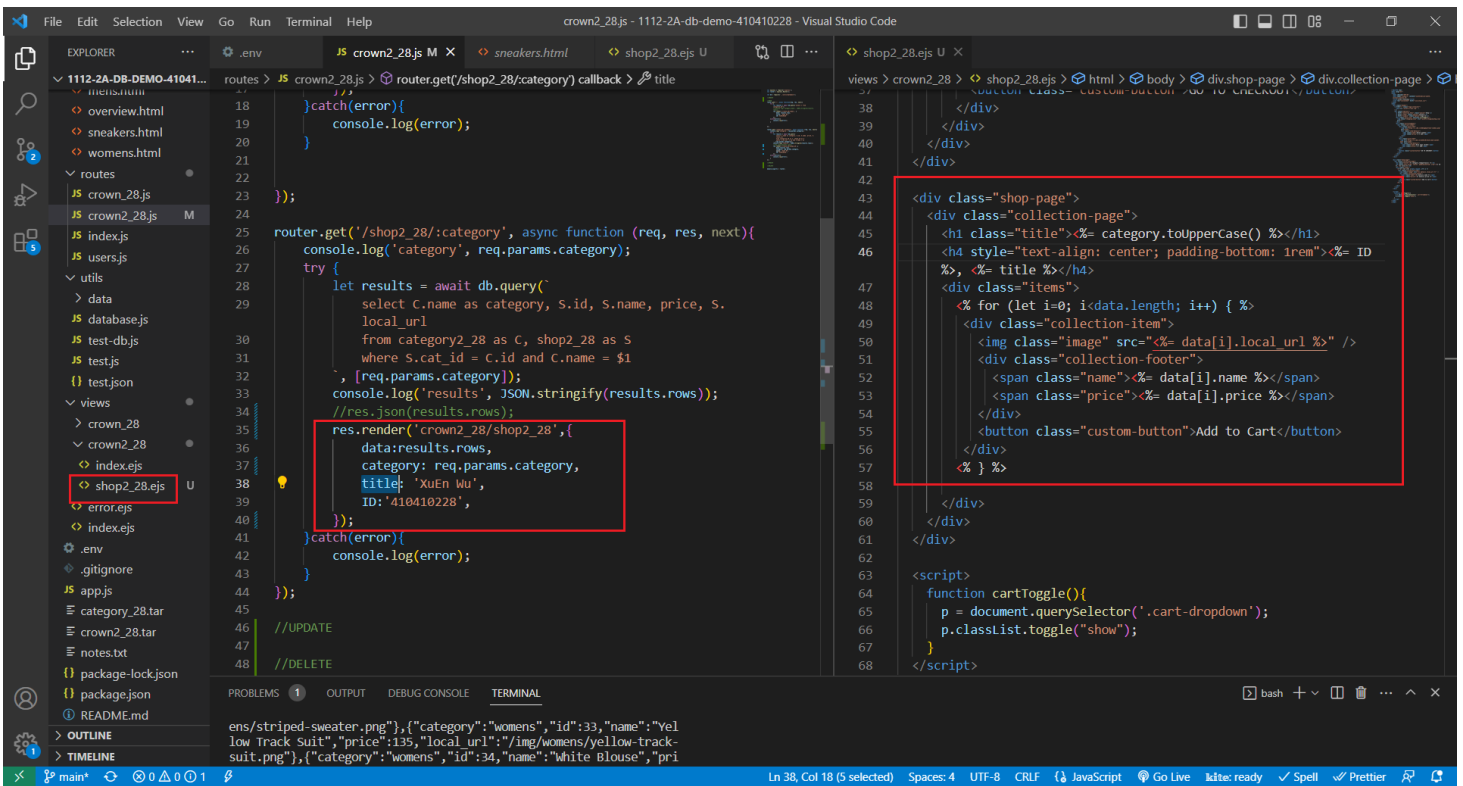
Nike Brown High Tops 160



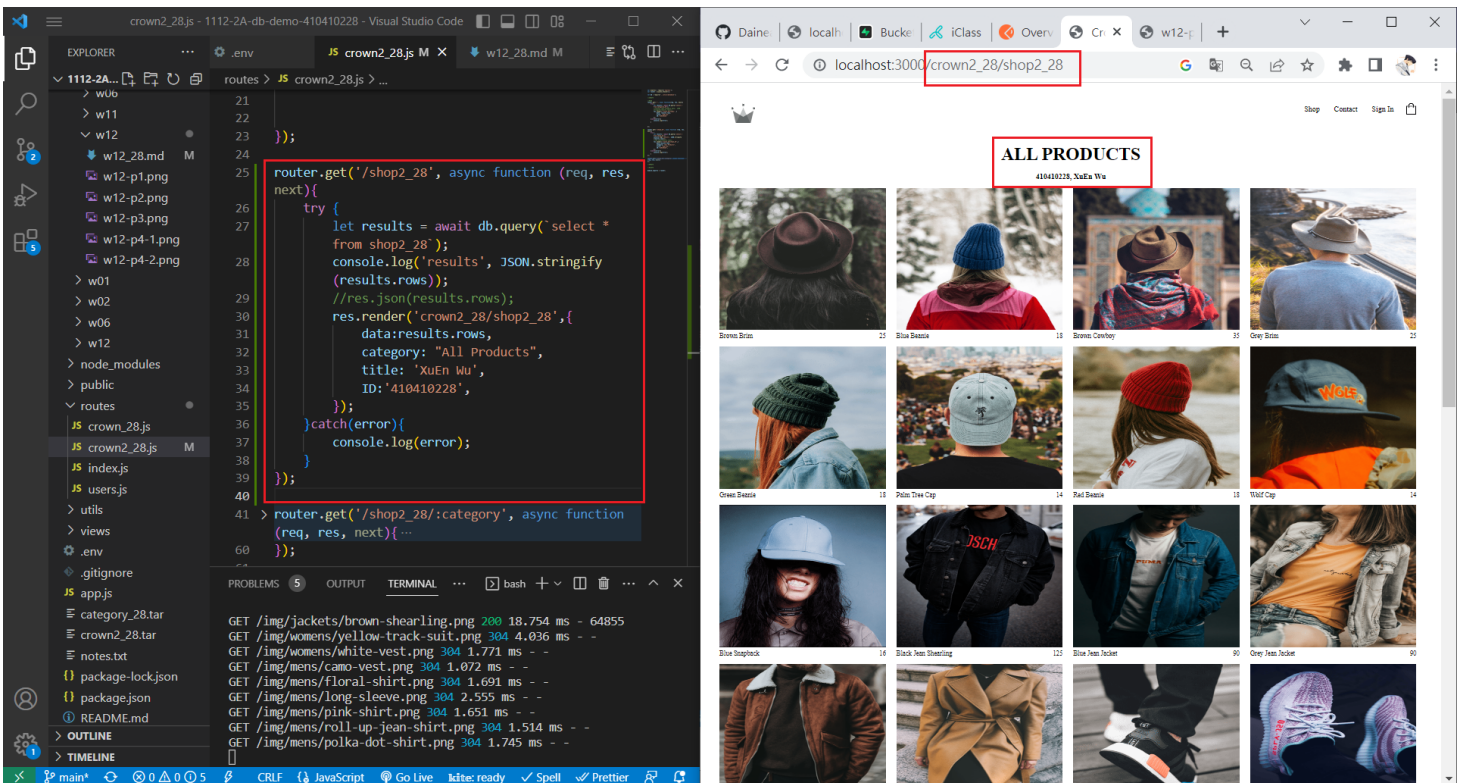
Air Jordan Limited 190



Timberlands 200



## W12-P5: implement route /crown2\_xx/shop2\_xx to show all products in shop2\_xx.ejs



## W12-P6: make each category link works in /crown2\_xx page

The image shows two side-by-side screenshots. The left screenshot is from Visual Studio Code, displaying the file explorer on the left with the project structure. The main editor shows the `index.ejs` file with a loop that generates a directory menu. A red box highlights the `<a href=\"% data[i].link_url %>` line. The right screenshot is from the Supabase Table Editor, showing the `category2_28` table. A red box highlights the `link_url` column, which contains the following values:

id	link_url
1	/crown2_28/shop2_28/hats
2	/crown2_28/shop2_28/jackets
3	/crown2_28/shop2_28/sneakers
4	/crown2_28/shop2_28/womens
5	/crown2_28/shop2_28/mens

## Github logs of Week 12

The image shows a screenshot of the GitHub terminal interface. The terminal displays the output of the command `$ git log --pretty=format:"%h%x09%an%x09%ad%x09s" --after="2023-4-25"`. The output shows three commits:

Commit Hash	Author	Date	Message
e3d87933	Daineair	Thu May 4 17:10:06 2023 +0800	w12 0504 supabase
d598c31d	Daineair	Wed May 3 15:01:46 2023 +0800	w12 0503
8f1e78d3	Daineair1~	Wed Apr 26 15:03:31 2023 +0800	w11 0426

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09s" --after="2023-4-25"
e3d87933      Daineair      Thu May 4 17:10:06 2023 +0800   w12 0504 supabase
d598c31d      Daineair      Wed May 3 15:01:46 2023 +0800   w12 0503
8f1e78d3      Daineair1~    Wed Apr 26 15:03:31 2023 +0800   w11 0426
```