

w17-p1: create user\_xx in postgresQL server, enter two data, the first one is about your

The screenshot displays the pgAdmin 4 web interface. On the left sidebar, the 'Browsers' pane shows the database hierarchy: Servers (1) > PostgreSQL 14 > Databases (5) > crown\_44 > Schemas (1) > public > Tables (4). The 'user\_44' table is selected, and its 'Columns (3)' are listed: user\_id, name, and email. A red box highlights this section.

The main 'Query Editor' pane contains the following SQL code, which is also highlighted with a red box:

```
INSERT INTO user_44 (user_id,name,email)
VALUES
(1,'hcleee','409410544@gms.tku.edu.tw'),
(2,'ben','ben@gmail.com')

/*
CREATE TABLE user_44 (
  user_id int,
  name varchar(255),
  email varchar(255),
  PRIMARY KEY (user_id)
)
*/
```

Below the query editor, the 'Messages' pane shows the execution results:

```
INSERT 0 2
Query returned successfully in 43 msec.
```

pgAdmin 4 interface showing the database structure and data output.

**Database Structure:**

- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (4)
  - book\_44
  - category\_44
  - shop\_44
  - user\_44**
    - Columns (3)
      - user\_id
      - name
      - email
    - Constraints
    - Indexes

**Data Output:**

	user_id [PK] integer	name character varying (255)	email character varying (255)
1	1	hcllee	409410544@gms.tku.edu.tw
2	2	ben	ben@gmail.com

**w17-p2: create cart\_xx in postgresQL server, enter five data, one for each category**

pgAdmin 4 interface showing the creation of the cart\_44 table and the insertion of data.

**Database Structure:**

- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (5)
  - book\_44
  - cart\_44
    - Columns (4)
      - cart\_id
      - user\_id
      - product\_id
      - amount
    - Constraints (3)
      - cart\_44\_pkey
      - cart\_44\_product\_id\_fkey
      - cart\_44\_user\_id\_fkey
    - Indexes
    - RLS Policies
    - Rules
    - Triggers
  - category\_44
  - shop\_44
  - user\_44
    - Columns (3)
      - user\_id
      - name
      - email
    - Constraints
    - Indexes
    - RLS Policies
    - Rules
    - Triggers

**Query Editor:**

```
1 INSERT INTO cart_44 (cart_id, user_id, product_id, amount)
2 VALUES
3 (1,1,6,6),
4 (2,1,15,4),
5 (3,1,20,8),
6 (4,1,28,3),
7 (5,1,35,7)
8
9
10
11 /* CREATE TABLE cart_44 (
12     cart_id int,
13     user_id int REFERENCES user_44 ON DELETE SET NULL ON UPDATE CASCADE,
14     product_id int REFERENCES shop_44 ON DELETE SET NULL ON UPDATE CASCADE,
15     amount int,
16     PRIMARY KEY (cart_id)
17 )
18 */
```

**Data Output:**

INSERT 0 5

Query returned successfully in 32 msec.

pgAdmin

File Object Tools Help

Browser

FTS Dictionaries

FTS Parsers

FTS Templates

Foreign Tables

Functions

Materialized Views

Operators

Procedures

Sequences

Tables (5)

book\_44

cart\_44

Columns (4)

cart\_id

user\_id

product\_id

amount

Constraints (3)

cart\_44\_pkey

cart\_44\_product\_id\_fkey

cart\_44\_user\_id\_fkey

Indexes

RLS Policies

Rules

Triggers

category\_44

shop\_44

user\_44

Columns (3)

user\_id

name

email

Constraints

Indexes

RLS Policies

Query Editor

Query History

Scratch Pad

```
1 SELECT * FROM public.cart_44
2 ORDER BY cart_id ASC
```

Data Output

	cart_id [PK] integer	user_id integer	product_id integer	amount integer	
1	1	1	6	6	
2	2	1	15	4	
3	3	1	20	8	
4	4	1	28	3	
5	5	1	35	7	

**w17-p3: give query to get related data for cart info shown in ejs**

pgAdmin 4

File Object Tools Help

Browser

Aggregates

- Collations
- Domains
- FTS Configurations
- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (5)
  - book\_44
  - cart\_44
  - category\_44
  - shop\_44
  - user\_44
    - Columns (3)
      - user\_id
      - name
      - email
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- Trigger Functions
- Types
- Views

- Subscriptions
- dvdrental
- exam\_pre\_44
- postgres
- world\_0609\_44
- Login/Group Roles
- Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents crown\_44/postgres@PostgreSQL 14 \*

No limit

Query Editor Query History

```
1 SELECT cart_id,U.name as user_name, S.name as product_name,price,amount,S.remote_url as image
2 FROM cart_44 as C,user_44 as U, shop_44 as S
3 WHERE C.user_id = U.user_id AND C.product_id = S.id
```

Data Output Explain Messages Notifications

	cart_id integer	user_name character varying (255)	product_name character varying (45)	price real	amount integer	image character varying (255)
1	1	hcllee	Brown Brim	25	6	<a href="https://i.libb.co/ZYW3VTp/brown-brim.png">https://i.libb.co/ZYW3VTp/brown-brim.png</a>
2	2	hcllee	Black Jean Shearling	125	4	<a href="https://i.libb.co/Xzawl5s/black-shearling.png">https://i.libb.co/Xzawl5s/black-shearling.png</a>
3	3	hcllee	Adidas NMD	220	8	<a href="https://i.libb.co/0s3pdnc/adidas-nmd.png">https://i.libb.co/0s3pdnc/adidas-nmd.png</a>
4	4	hcllee	Blue Tanktop	25	3	<a href="https://i.libb.co/7CQVJNm/blue-tank.png">https://i.libb.co/7CQVJNm/blue-tank.png</a>
5	5	hcllee	Camo Down Vest	325	7	<a href="https://i.libb.co/xJS0T3Y/camo-vest.png">https://i.libb.co/xJS0T3Y/camo-vest.png</a>

**w17-p4: insert data in order to violate the key constraints, foreign key constraints**

Aggregates

- > Collations
- > Domains
- > FTS Configurations
- > FTS Dictionaries
- > FTS Parsers
- > FTS Templates
- > Foreign Tables
- > Functions
- > Materialized Views
- > Operators
- > Procedures
- > 1.3 Sequences
- > Tables (5)
  - > book\_44
  - > cart\_44
  - > category\_44
  - > shop\_44
  - > user\_44
    - > Columns (3)
      - user\_id
      - name
      - email
    - > Constraints
    - > Indexes
    - > RLS Policies
    - > Rules
    - > Triggers
  - > Trigger Functions
  - > Types
  - > Views

Query Editor Query History

```
1 INSERT INTO cart_44 (cart_id, user_id, product_id, amount)
2 VALUES
3 (1, 3, 6, 6)
```

Data Output Explain Messages Notifications

ERROR: duplicate key value violates unique constraint "cart\_44\_pkey"  
DETAIL: Key (cart\_id)=(1) already exists.  
SQL state: 23505

FTS Configurations

- > FTS Configurations
- > FTS Dictionaries
- > FTS Parsers
- > FTS Templates
- > Foreign Tables
- > Functions
- > Materialized Views
- > Operators
- > Procedures
- > 1.3 Sequences
- > Tables (5)
  - > book\_44
  - > cart\_44
  - > category\_44
  - > shop\_44
  - > user\_44
    - > Columns (3)
      - user\_id
      - name
      - email
    - > Constraints
    - > Indexes
    - > RLS Policies
    - > Rules
    - > Triggers

Query Editor Query History

```
1 INSERT INTO cart_44 (cart_id, user_id, product_id, amount)
2 VALUES
3 (6, 3, 6, 6)
```

Data Output Explain Messages Notifications

ERROR: insert or update on table "cart\_44" violates foreign key constraint "cart\_44\_user\_id\_fkey"  
DETAIL: Key (user\_id)=(3) is not present in table "user\_44".  
SQL state: 23503

The screenshot displays a database management interface. On the left, a tree view shows the database structure, with the 'cart\_44' table selected. The table's columns are 'cart\_id', 'user\_id', 'product\_id', and 'amount'. The constraints section shows 'cart\_44\_pkey' as the primary key and two foreign keys: 'cart\_44\_product\_id\_fkey' and 'cart\_44\_user\_id\_fkey'. The 'Messages' tab at the bottom shows an error: 'ERROR: insert or update on table "cart\_44" violates foreign key constraint "cart\_44\_product\_id\_fkey"'. The detail of the error is 'Key (product\_id)=(5) is not present in table "shop\_44"'. The SQL state is '23503'. The query editor shows an 'INSERT INTO' statement for 'cart\_44' with values (6, 1, 5, 6).

Query Editor Query History

```
1 INSERT INTO cart_44 (cart_id, user_id, product_id, amount)
2 VALUES
3 (6, 1, 5, 6)
```

Data Output Explain Messages Notifications

ERROR: insert or update on table "cart\_44" violates foreign key constraint "cart\_44\_product\_id\_fkey"  
DETAIL: Key (product\_id)=(5) is not present in table "shop\_44".  
SQL state: 23503

## w17-p5.1: test ON UPDATE CASCADE

pgAdmin File Object Tools Help

Browser public.cart\_44/... public.user\_44/crown\_44/postgres@PostgreSQL 14

- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (5)
  - book\_44
  - cart\_44
    - Columns (4)
      - cart\_id
      - user\_id
      - product\_id
      - amount
    - Constraints (3)
      - cart\_44\_pkey
      - cart\_44\_product\_id\_fkey
      - cart\_44\_user\_id\_fkey
    - Indexes
    - RLS Policies
    - Rules
    - Triggers
  - category\_44
  - shop\_44
  - user\_44
- Trigger Functions
- Types
- Views
- Subscriptions

Query Editor Query History

```
1 SELECT * FROM public.user_44
2 ORDER BY user_id ASC
```

Data Output Explain Messages Notifications

	user_id [PK] integer	name character varying (255)	email character varying (255)
1	1	hcleee	409410544@gms.tku.edu.tw
2	5	ben	ben@gmail.com



> FIS Parsers

> FTS Templates

> Foreign Tables

> Functions

> Materialized Views

> Operators

> Procedures

> 1.3 Sequences

> Tables (5)

> book\_44

> cart\_44

> Columns (4)

cart\_id

user\_id

product\_id

amount

> Constraints (3)

cart\_44\_pkey

cart\_44\_product\_id\_fkey

cart\_44\_user\_id\_fkey

> Indexes

> RLS Policies

> Rules

> Triggers

> category\_44

> shop\_44

> user\_44

> Trigger Functions

> Types

> Views

> Subscriptions

> dvdrental

> exam\_pre\_44

> postgres

> world\_0609\_44

> Login/Group Roles

Query EditorQuery History

1 SELECT \* FROM public.cart\_44

2 ORDER BY cart\_id ASC

Data OutputExplainMessagesNotifications

	cart_id [PK] integer	user_id integer	product_id integer	amount integer	
1	1	1	6	6	
2	2	1	15	4	
3	3	1	20	8	
4	4	1	28	3	
5	5	1	35	7	
6	6	1	6	1	
7	7	5	20	1	
8	8	5	10	2	

✓ Success

w17-p5.2: test ON DELETE SET NULL



- > Foreign Tables
- > Functions
- > Materialized Views
- > Operators
- > Procedures
- > 1.3 Sequences
- ✓ Tables (5)
  - > book\_44
  - ✓ cart\_44
    - ✓ Columns (4)
      - cart\_id
      - user\_id
      - product\_id
      - amount
    - ✓ Constraints (3)
      - cart\_44\_pkey
      - cart\_44\_product\_id\_fkey
      - cart\_44\_user\_id\_fkey
    - > Indexes
    - > RLS Policies
    - > Rules
    - > Triggers
  - > category\_44
  - > shop\_44
  - > user\_44
- > Trigger Functions

Query Editor Query History

```
1 SELECT * FROM public.user_44
2 ORDER BY user_id ASC
```

Data Output Explain Messages Notifications

	user_id [PK] integer	name character varying (255)	email character varying (255)
1	1	hcllee	409410544@gms.tku.edu.tw
2	5	ben	ben@gmail.com

- ✓ Tables (5)
  - > book\_44
  - ✓ cart\_44
    - ✓ Columns (4)
      - cart\_id
      - user\_id
      - product\_id
      - amount
    - ✓ Constraints (3)
      - cart\_44\_pkey
      - cart\_44\_product\_id\_fkey
      - cart\_44\_user\_id\_fkey
    - > Indexes
    - > RLS Policies
    - > Rules
    - > Triggers
  - > category\_44
  - > shop\_44
  - > user\_44
- > Trigger Functions
- > Types
- > Views
- > Subscriptions
- > dvdrental
- > exam\_pre\_44
- > postgres
- > world\_0609\_44
- > Login/Group Roles

Data Output Explain Messages Notifications

	cart_id [PK] integer	user_id integer	product_id integer	amount integer
1		1	1	6
2		2	1	15
3		3	1	20
4		4	1	28
5		5	1	35
6		6	1	6
7		7	[null]	20
8		8	[null]	10

## w17-p6: implement /book\_xx/delete/:id

views > book\_44 > index.ejs > <div>  
46 <td>{{ data[i].author }}</td>  
47 <td>100</td>  
48 <td>  
49 <a  
50 class="btn btn-success edit"  
51 href="/book\_44/edit/{{ data[i].id }}"  
52 >Edit</a>  
53 </td>  
54 <a  
55 class="btn btn-danger delete"  
56 onclick="return alert('Are You sure?');"  
57 href="/book\_44/delete/{{ data[i].id }}"  
58 >Delete</a>  
59 </td>  
60 </tr>  
61 </tbody>  
62 </table>  
63 </div>  
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book\_44.js M X  
routes > book\_44.js > router.get('/:id') callback  
63  
64 //DELETE  
65  
66 router.get('/:delete/:id', async (req, res) => {  
67 try {  
68 console.log('delete id', req.params.id);  
69 const query = {  
70 text: 'DELETE FROM book\_44 WHERE id = \$1',  
71 values: [req.params.id]  
72 }  
73 await db.query(query);  
74 res.redirect('/book\_44');  
75 } catch (err) {  
76 console.log(err);  
77 }  
78 }  
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GET /books\_xx/delete/5 404 9.277 ms - 1196  
[nodemon] restarting due to changes...  
[nodemon] starting node -bin/www  
results [{"id":1,"name":"Js Primers","author":"Brad Traversy","price":100}, {"id":3,"name":"DataBase","author":"LeehungChun","price":1000}]  
GET /book\_44 200 186.852 ms - 3900  
delete id 5  
GET /book\_44/delete/5 302 5.532 ms - 60  
[nodemon] restarting due to changes...  
[nodemon] starting node -bin/www  
GET /book\_44 200 3.418 ms - 3345  
[nodemon] restarting due to changes...  
[nodemon] starting node -bin/www

Books  
409410544Angelo Lee  
Add Book  
Books  
Id Name Author Price Action  
1 Js Primers Brad Traversy 100 Edit Delete  
3 Nodejs John Smilga 100 Edit Delete

## w17-p7: implement /book\_xx/update

edit\_44.ejs > <div>  
14 <div class="card">  
15 <div class="card-header">Edit Book</div>  
16 <div class="card-body">  
17 <div class="form-group">  
18 <input type="text" value="{{ book.name }}" />  
19 <input type="text" value="{{ book.author }}" />  
20 <input type="text" value="{{ book.price }}" />  
21 <input type="button" value="Update" />  
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