

w17-p1: create user_51 in postgresQL server, enter two data, the first one is about your

The screenshot displays a PostgreSQL client interface with a sidebar on the left showing the database structure. The main area is divided into a Query Editor and a Messages pane.

Query Editor: Contains two SQL queries. The first query is an INSERT statement, and the second is a CREATE TABLE statement. Both are highlighted with red boxes.

```
1 INSERT INTO user_51(user_id, name, email)
2 VALUES
3 (1, 'henry', '409411351@gms.tku.edu.tw'),
4 (2, 'john', 'john@gmail.com')
5
6 /*
7 CREATE TABLE user_51(
8     user_id int,
9     name varchar(255),
10    email varchar(255),
11    PRIMARY KEY(user_id)
12 )
13 */
```

Messages Pane: Shows the execution results of the queries.

```
INSERT 0 2

Query returned successfully in 27 msec.
```

Database Structure (Left Sidebar): The 'public' schema is expanded, showing the 'user_51' table. The table's columns (user_id, name, email) and its primary key constraint (user_51_pkey) are highlighted with a red box.

1.3 Sequences

Tables (4)

book_51

category_51

shop_51

user_51

Columns (3)

user_id

name

email

Constraints (1)

user_51_pkey

Data Output

Explain

Messages

Notifications

	user_id	name	email
	[PK] integer	character varying (255)	character varying (255)
1	1	henry	409411351@gms.tku.edu.tw
2	2	john	john@gmail.com

w17-p2: create cart_51 in postgresQL server, enter five data, one for each category

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 - book_51
 - cart_51**
 - Columns (4)
 - cart_id
 - user_id
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 - amount
 - Constraints (3)
 - cart_51_pkey
 - cart_51_product_id_fkey
 - cart_51_user_id_fkey
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Query Editor

Query History

Scratch Pad

```

1 INSERT INTO cart_51(cart_id, user_id, product_id, amount)
2 VALUES
3 (1,1,6,1),
4 (2,1,15,2),
5 (3,1,20,1),
6 (4,1,28,3),
7 (5,1,35,2)
8
9 /*
10 CREATE TABLE cart_51(
11     cart_id int,
12     user_id int REFERENCES user_51 ON DELETE SET NULL ON UPDATE CASCADE,
13     product_id int REFERENCES shop_51 ON DELETE SET NULL ON UPDATE CASCADE,
14     amount int,
15     PRIMARY KEY(cart_id)
16 )
17 */

```

Data Output

Explain

Messages

Notifications

INSERT 0 5

Query returned successfully in 29 msec.

▼ cart_51

▼ Columns (4)

cart_id

user_id

product_id

amount

▼ Constraints (3)

cart_51_pkey

cart_51_product_id_fkey

cart_51_user_id_fkey

> Indexes

> RLS Policies

> Rules

> Triggers

> category_51

> shop_51

Data Output Explain Messages Notifications

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

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

▼ Tables (5)

> book_51

▼ cart_51

▼ Columns (4)

cart_id

user_id

product_id

amount

▼ Constraints (3)

cart_51_pkey

cart_51_product_id_fkey

cart_51_user_id_fkey

> Indexes

> RLS Policies

> Rules

> Triggers

> category_51

> shop_51

▼ Columns (6)

id

name

cat_id

price

remote_url

local_url

▼ Constraints (1)

shop_51_pkey

> Indexes

> RLS Policies

> Rules

> Triggers

> user_51

▼ Columns (3)

user_id

name

email

▼ Constraints (1)

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_51 as C, user_51 as U, shop_51 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	price real	amount integer	image character varying
1	1	henry	Brown Brim	25	1	https://i.ibb.co/ZYW3VTp/brown-brim.png
2	2	henry	Black Jean Shearling	125	2	https://i.ibb.co/XzcnL5s/black-shearling.png
3	3	henry	Adidas NMD	220	1	https://i.ibb.co/0s3pdnc/adidas-nmd.png
4	4	henry	Blue Tanktop	25	3	https://i.ibb.co/7CQVJNm/blue-tank.png
5	5	henry	Camo Down Vest	325	2	https://i.ibb.co/xJS0T3Y/camo-vest.png

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

The screenshot shows a database management tool interface. On the left, a tree view displays the database structure, including tables and constraints. The 'Messages' tab in the bottom right pane shows an error message:

```
ERROR: duplicate key value violates unique constraint "cart_51_pkey"
DETAIL: Key (cart_id)=(1) already exists.
SQL state: 23505
```

The query editor shows the following SQL statement:

```
1 INSERT INTO cart_51 (cart_id, user_id, product_id, amount)
2 VALUES
3 (1, 3, 6, 1)
```

The screenshot shows a database management tool interface. On the left, a tree view displays the database structure. The 'Messages' tab in the bottom right pane shows an error message:

```
ERROR: insert or update on table "cart_51" violates foreign key constraint "cart_51_user_id_fkey"
DETAIL: Key (user_id)=(3) is not present in table "user_51".
SQL state: 23503
```

The query editor shows the following SQL statement:

```
1 INSERT INTO cart_51 (cart_id, user_id, product_id, amount)
2 VALUES
3 (6, 3, 6, 1)
```

The screenshot shows a database management tool interface. On the left, a tree view displays the database structure. The 'Messages' tab in the bottom right pane shows an error message:

```
ERROR: insert or update on table "cart_51" violates foreign key constraint "cart_51_product_id_fkey"
DETAIL: Key (product_id)=(5) is not present in table "shop_51".
SQL state: 23503
```

The query editor shows the following SQL statement:

```
1 INSERT INTO cart_51 (cart_id, user_id, product_id, amount)
2 VALUES
3 (6, 1, 5, 1)
```

w17-p5.1: test ON UPDATE CASCADE

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 - ▼ Tables (5)
 - > book_51
 - ▼ cart_51
 - ▼ Columns (4)
 - cart_id
 - user_id
 - product_id
 - amount
 - ▼ Constraints (3)

Query Editor Query History

```
1 SELECT * FROM public.user_51
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	henry	409411351@gms.tku.edu.tw
2	5	john	john@gmail.com

- ▼ crown_51
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 - product_id
 - amount
 - ▼ Constraints (3)
 - cart_51_pkey
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 - cart_51_user_id_fkey
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2 ORDER BY cart_id ASC

Data Output Explain Messages Notifications

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

w17-p5.2: test ON DELETE SET NULL

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 - cart_51
 - Columns (4)
 - cart_id
 - user_id
 - product_id
 - amount

Query Editor Query History

```
1 SELECT * FROM public.user_51
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	henry	409411351@gms.tku.edu.tw
2	2	john	john@gmail.com

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▼ Databases (7)

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 - ▼ Columns (4)
 - cart_id
 - user_id
 - product_id
 - amount
 - ▼ Constraints (3)
 - cart_51_pkey
 - cart_51_product_id_fkey
 - cart_51_user_id_fkey
 - > Indexes
 - > Policies

Query Editor
Query History

```

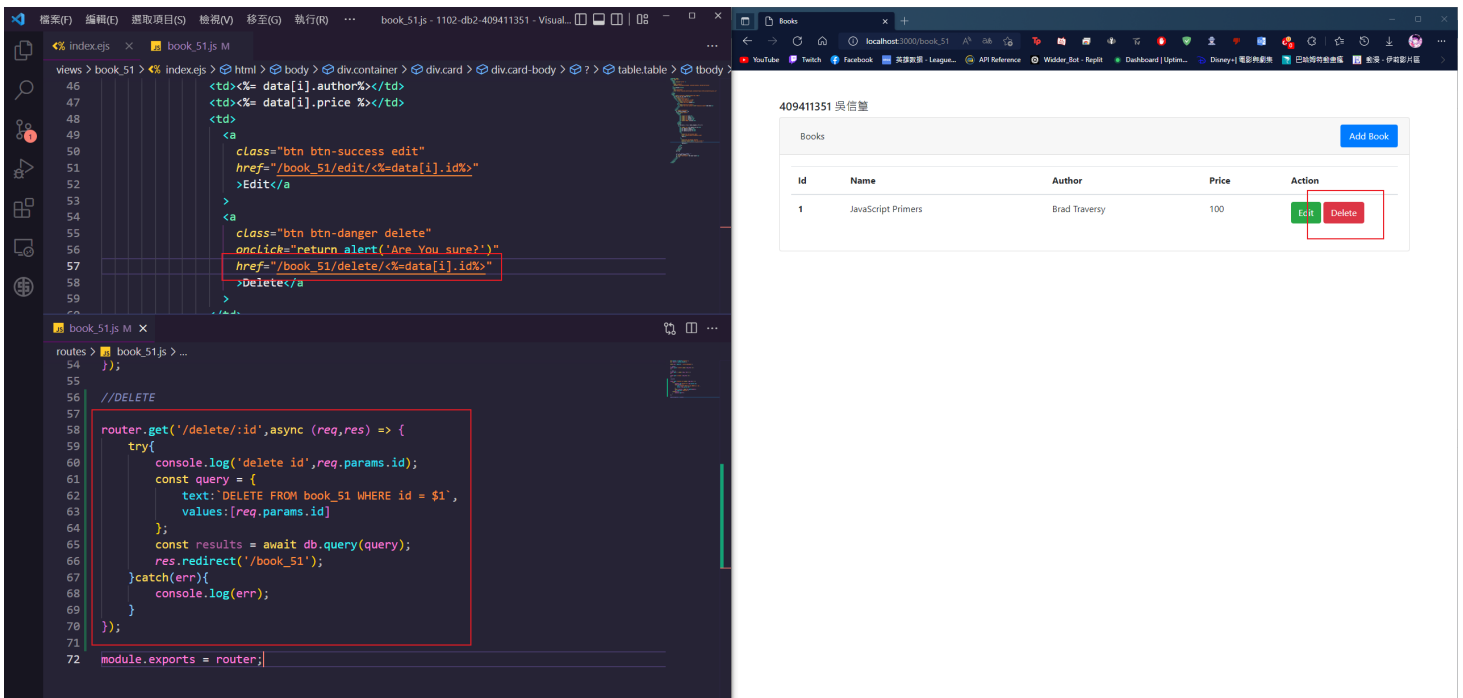
1 SELECT * FROM public.cart_51
2 ORDER BY cart_id ASC

```

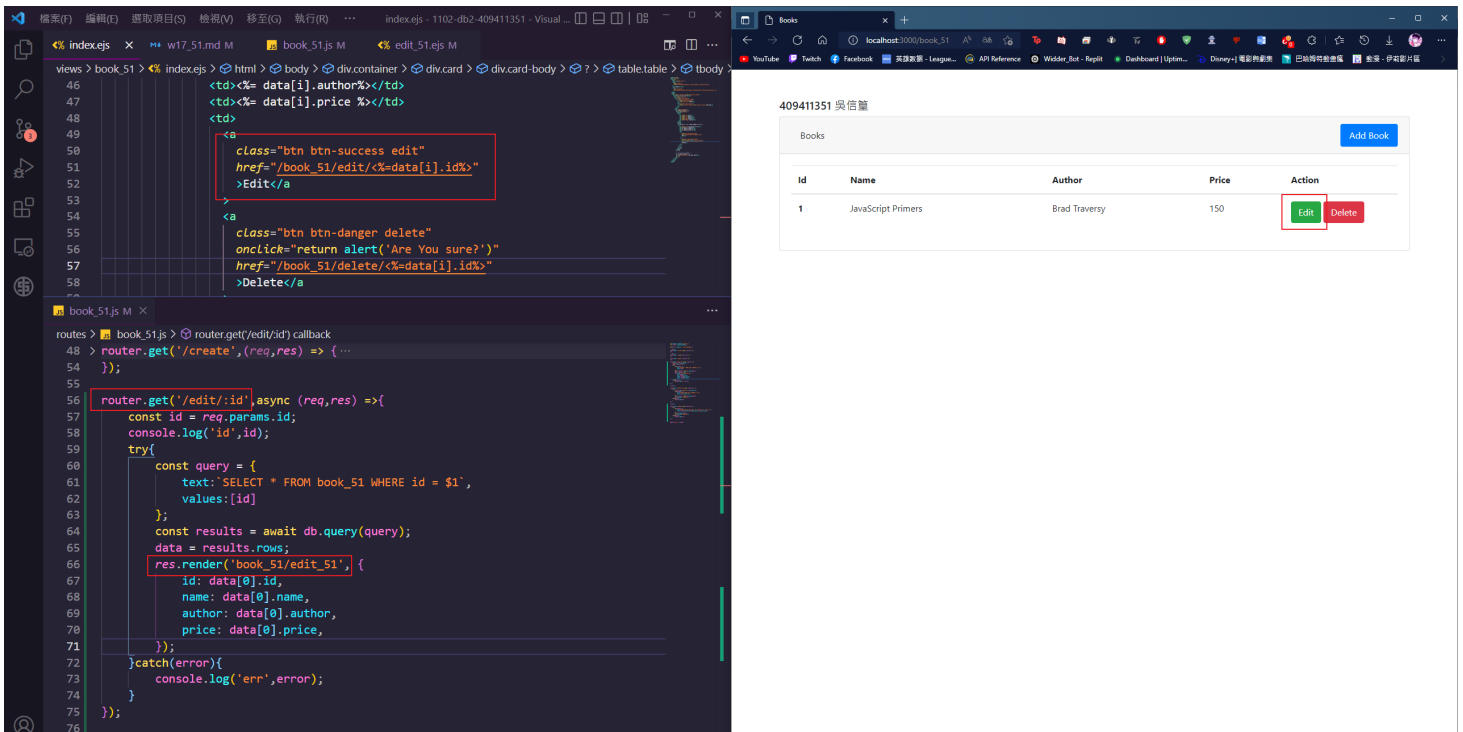
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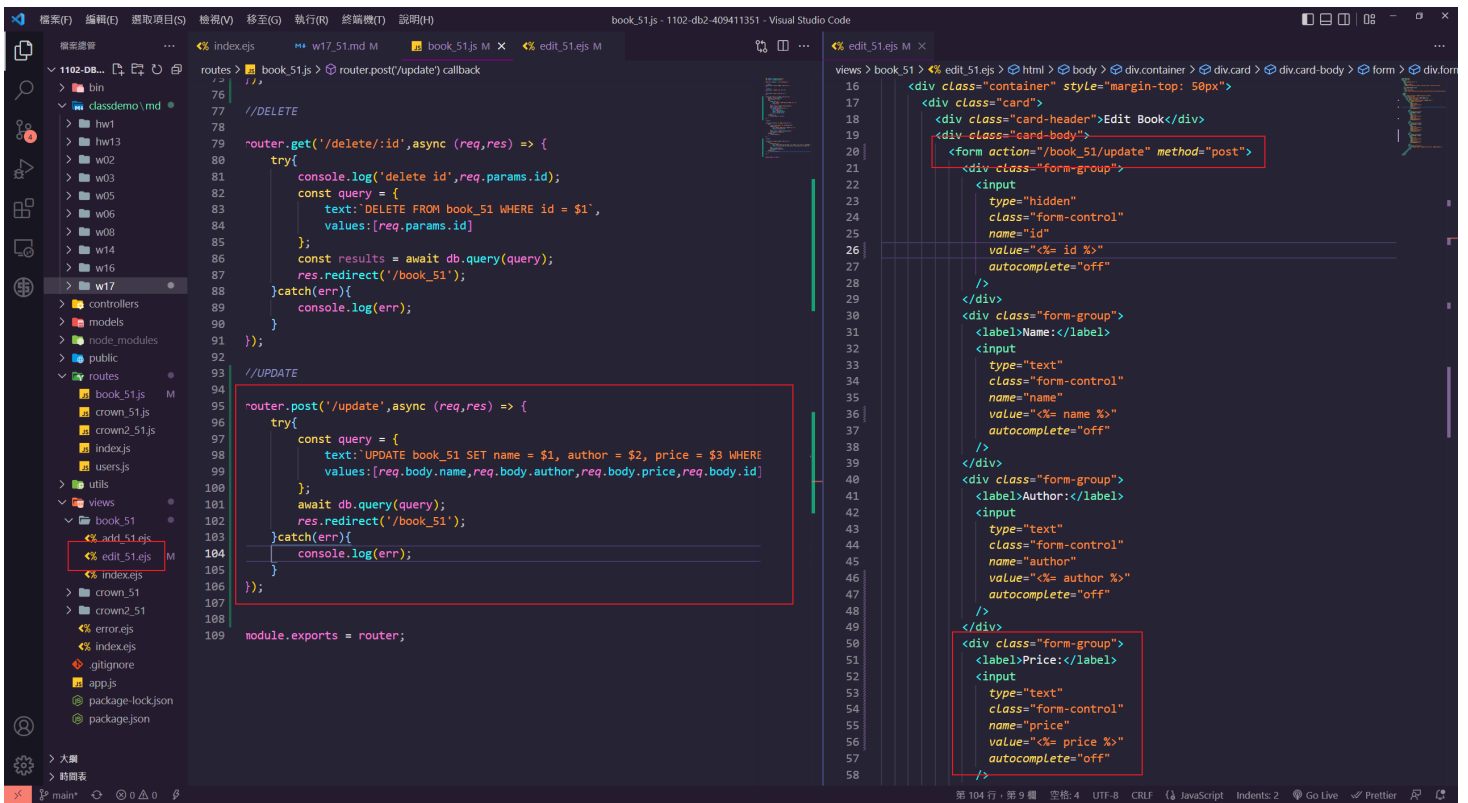
	cart_id [PK] integer	user_id integer	product_id integer	amount integer
1	1	1	6	1
2	2	1	15	2
3	3	1	20	1
4	4	1	28	3
5	5	1	35	2
6	6	1	6	1
7	7	[null]	10	1
8	8	[null]	20	2

w17-p6: implement /book_51/delete/:id



w17-p7: implement /book_51/update





w17-LAST-log

```
henry@DESKTOP-FU970NG MINGW64 /d/1102-db2-409411351 (main)
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2022-06-13"
4561d3d Darkking789 Tue Jun 14 18:22:29 2022 +0800 w17-p7: implement /book_51/update
76096c1 Darkking789 Tue Jun 14 17:51:06 2022 +0800 w17-p6: implement /book_51/delete/:id
f62859d Darkking789 Tue Jun 14 17:19:42 2022 +0800 w17-p5.1: test ON UPDATE CASCADE w17-p5.2: test ON DELETE SET NULL
e23ed6e Darkking789 Tue Jun 14 17:04:47 2022 +0800 ### w17-p4: insert data in order to violate the key constraints, foreign key constraints
400f2cf Darkking789 Tue Jun 14 16:40:34 2022 +0800 ### w17-p3: give query to get related data for cart info shown in ejs
e384fe6 Darkking789 Tue Jun 14 16:12:25 2022 +0800 ### w17-p2: create cart_51 in postgresSQL server, enter five data, one for each category
468edb8 Darkking789 Tue Jun 14 15:50:30 2022 +0800 ### w17-p1: create user_51 in postgresSQL server, enter two data, the first one is about your
```

```
git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2022-06-13"
```

```
4561d3d Darkking789 Tue Jun 14 18:22:29 2022 +0800 w17-p7: implement /book_51/update
76096c1 Darkking789 Tue Jun 14 17:51:06 2022 +0800 w17-p6: implement /book_51/delete/:id
f62859d Darkking789 Tue Jun 14 17:19:42 2022 +0800 w17-p5.1: test ON UPDATE CASCADE w17-p5.2: test ON DELETE SET NULL
e23ed6e Darkking789 Tue Jun 14 17:04:47 2022 +0800 ### w17-p4: insert data in order to violate the key constraints, foreign key constraints
400f2cf Darkking789 Tue Jun 14 16:40:34 2022 +0800 ### w17-p3: give query to get related data for cart info shown in ejs
e384fe6 Darkking789 Tue Jun 14 16:12:25 2022 +0800 ### w17-p2: create cart_51 in postgresSQL server, enter five data, one for each category
468edb8 Darkking789 Tue Jun 14 15:50:30 2022 +0800 ### w17-p1: create user_51 in postgresSQL server, enter two data, the first one is about your
```