

# Github repo URL

<https://github.com/roberttt456/1102-db2-crown-405416032>

Commits on Jun 16, 2022		
w16 p2~p4	roberttt456 committed 7 days ago	<a href="#">9ac51ef</a>
w16 p2~p4	roberttt456 committed 7 days ago	<a href="#">91f0a66</a>
w16	roberttt456 committed 7 days ago	<a href="#">8d807b2</a>
w17	roberttt456 committed 7 days ago	<a href="#">8474e4d</a>
Commits on May 25, 2022		
w14-p1: save a product to postgresSQL server, show code and new data i...	roberttt456 committed 29 days ago	<a href="#">291bcd8</a>
Commits on May 18, 2022		
w13-p2 use Postman to test product body data can be retrieved using r...	roberttt456 committed on 18 May	<a href="#">dd7c9a3</a>
w13-p1: create controllers for crown2 for MVC architecture	roberttt456 committed on 18 May	<a href="#">40fb5e7</a>
Commits on Apr 24, 2022		
mid	roberttt456 committed on 24 Apr	<a href="#">79e2717</a>
mid	roberttt456 committed on 24 Apr	<a href="#">f7dae2e</a>
Commits on Apr 13, 2022		
hw	roberttt456 committed on 13 Apr	<a href="#">fc7bc73</a>

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

Publications

Schemas (1)

public

- Aggregates
- Collations
- Domains
- FTS Configurations
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- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (4)
  - cart\_32
  - category\_32
  - shop\_32
  - user\_32**
    - Columns (3)
      - user\_id
      - name
      - email
    - Constraints (1)
      - user\_32\_pkey

Query

```

1 INSERT INTO user_32(user_id,name,email)
2 VALUES
3     (1,'黃嘉雄','405416032@gms.tku.edu.tw'),
4     (2,'test','test@gmail.com')
5
6 /*
7 CREATE TABLE user_32(
8     user_id int,
9     name varchar(255),
10    email varchar(255),
11    PRIMARY KEY (user_id)
12 )
13 */

```

Data output Messages Notifications

INSERT 0 2

Query returned successfully in 123 msec.

Total rows: 0 of 0 Query complete 00:00:00.123

	user_id [PK] integer	name character varying (255)	email character varying (255)
1	1	黃嘉雄	405416032@gms.tku.e...
2	2	test	test@gmail.com

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

pgAdmin 4

File Object Tools Help

Browser

collations Domains FTS Configurations FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized Views Operators Procedures Sequences Tables (4)

card\_32

Columns (4)

- card\_id
- user\_id
- product\_id
- amount

Constraints (3)

- card\_32\_pkey
- card\_32\_product\_id\_fkey
- card\_32\_user\_id\_fkey

Indexes

RLS Policies

Rules

Triggers

Query

```
1 INSERT INTO card_32(card_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
11 CREATE TABLE card_32(
12 card_id int,
13 user_id int REFERENCES user_32 ON DELETE SET NULL ON UPDATE CASCADE,
14 product_id int REFERENCES shop_32 ON DELETE SET NULL ON UPDATE CASCADE,
15 amount int,
16 PRIMARY KEY (card_id)
17 )
```

Query History

Scratch Pad

Data output Messages Notifications

INSERT 0 5

Query returned successfully in 51 msec.

Data output Messages Notifications

	card_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 ej3

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File Object Tools Help

Browser

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- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (4)
  - cart\_32
    - Columns (4)
      - cart\_id
      - user\_id
      - product\_id
      - amount
    - Constraints (3)
      - cart\_32\_pkey
      - cart\_32\_product\_id\_fkey
      - cart\_32\_user\_id\_fkey
    - Indexes
    - RLS Policies
    - Rules
    - Triggers
    - category\_32
    - shop\_32
    - user\_32
      - Columns (3)

Query

```

1 |,U.name as user_name , S.name as product_name, price, amount, S.remote_url as image
2 |is C ,user_32 as U, shop_32 as S
3 |d = U.user_id AND C.product_id = S.id

```

Data output Messages Notifications

	cart_id	user_name	product_name	price	amount	image
1	1	黃蕭謙	Brown Brim	25	1	https://i.lib.co/ZYW3V...
2	2	黃蕭謙	Black Jean Shearling	125	2	https://i.lib.co/XzcwL...
3	3	黃蕭謙	Adidas NMD	220	1	https://i.lib.co/0s3pdn...
4	4	黃蕭謙	Blue Tanktop	25	3	https://i.lib.co/7CQVJ...
5	5	黃蕭謙	Camo Down Vest	325	2	https://i.lib.co/XJSOT3...

Total rows: 5 of 5 Query complete 00:00:00.048

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

crown\_32/postgres@PostgreSQL 14

Query

```

1 |INSERT INTO cart_32(cart_id,user_id,product_id, amount)
2 |VALUES
3 |    (1,3,6,1)
4 |
5 |/*
6 |CREATE TABLE cart_32(
7 |    cart_id int,
8 |    user_id int REFERENCES user_32 ON DELETE SET NULL ON UPDATE CASCADE,
9 |    product_id int REFERENCES shop_32 ON DELETE SET NULL ON UPDATE CASCADE,
10 |    amount int,
11 |    PRIMARY KEY (cart_id)
12 |)
13 |*/

```

Data output Messages Notifications

ERROR: duplicate key value violates unique constraint "cart\_32\_pkey"

DETAIL: Key (cart\_id)=(1) already exists.

SQL state: 23505

Query Query History Scratch Pad x

```
1 INSERT INTO cart_32(cart_id,user_id,product_id, amount)
2 VALUES
3     (6,3,6,1)
4
5 /*
6 CREATE TABLE cart_32(
7     cart_id int,
8     user_id int REFERENCES user_32 ON DELETE SET NULL ON UPDATE CASCADE,
9     product_id int REFERENCES shop_32 ON DELETE SET NULL ON UPDATE CASCADE,
10    amount int,
11    PRIMARY KEY (cart_id)
12 )
13 */
```

Data output Messages Notifications

ERROR: insert or update on table "cart\_32" violates foreign key constraint "cart\_32\_user\_id\_fkey"  
DETAIL: Key (user\_id)=(3) is not present in table "user\_32".  
SQL state: 23503

crown\_32/postgres@PostgreSQL 14

Query Query History Scrato

```
1 INSERT INTO cart_32(cart_id,user_id,product_id, amount)
2 VALUES
3     (6,1,5,1)
4
5 /*
6 CREATE TABLE cart_32(
7     cart_id int,
8     user_id int REFERENCES user_32 ON DELETE SET NULL ON UPDATE CASCADE,
9     product_id int REFERENCES shop_32 ON DELETE SET NULL ON UPDATE CASCADE,
10    amount int,
11    PRIMARY KEY (cart_id)
12 )
13 */
```

Data output Messages Notifications

ERROR: insert or update on table "cart\_32" violates foreign key constraint "cart\_32\_product\_id\_fkey"  
DETAIL: Key (product\_id)=(5) is not present in table "shop\_32".  
SQL state: 23503

	user_id [PK] integer	name character varying (255)	email character varying (255)
1	1	黃嘉雄	405416032@gms.tku.e...
2	5	test	test@gmail.com

```

1 SELECT * FROM public.cart_32
2 ORDER BY cart_id ASC

```

Data output 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



```
102-db2-crown-405416032 views book_32 edit_32.js
index.js w17_32.md book_32.js edit_32.js
73 const results = await db.query(query);
74 data = results.rows;
75 res.render('view/book_32/edit_32', options, {
76   id: data[0].id,
77   name: data[0].name,
78   author: data[0].author,
79   price: data[0].price,
80 });
81 } catch (e) {
82   console.log(e);
83 }
84 });
85
86 router.post(path('/update'), handlers.async (req: Request<P, ResBody, ReqBody, ReqQuery, Local>, res: Response<ResBody, ResHeader>) => {
87   const id = req.body.id;
88   const name = req.body.name;
89   const author = req.body.author;
90   const price = req.body.price;
91
92   try {
93     const query = {
94       text: UPDATE book_32 SET name = $1, author = $2, price = $3 WHERE id = $4,
95       values: [id, name, author, price],
96     };
97     await db.query(query);
98     res.redirect(url('/book_32'));
99   } catch (e) {
100     console.log(e);
101   }
102 });
103
104 module.exports = router;
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```

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%" --after="2022-06-06"
9ac51ef robertttt456 Thu Jun 16 20:20:59 2022 +0800 w16 p2~p4
91f0a66 robertttt456 Thu Jun 16 20:19:22 2022 +0800 w16 p2~p4
8d807b2 robertttt456 Thu Jun 16 19:27:34 2022 +0800 w16
8474e4d robertttt456 Thu Jun 16 19:26:41 2022 +0800 w17
```