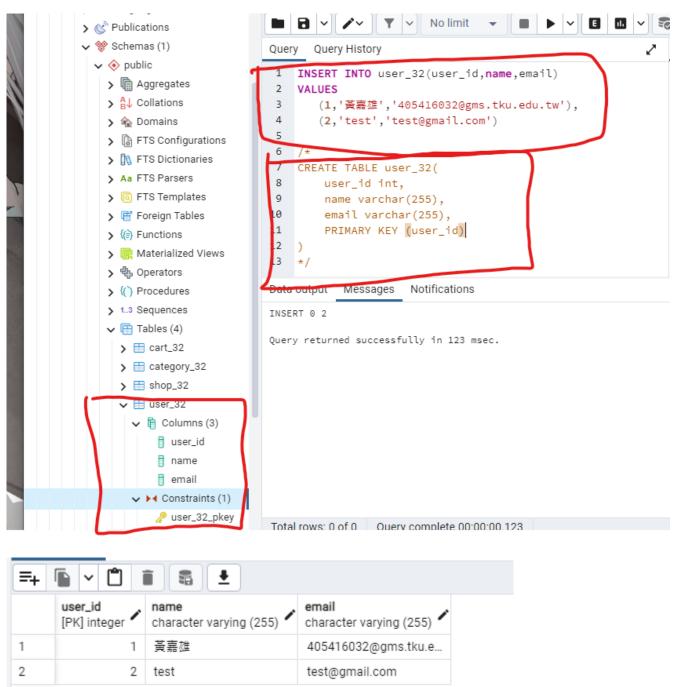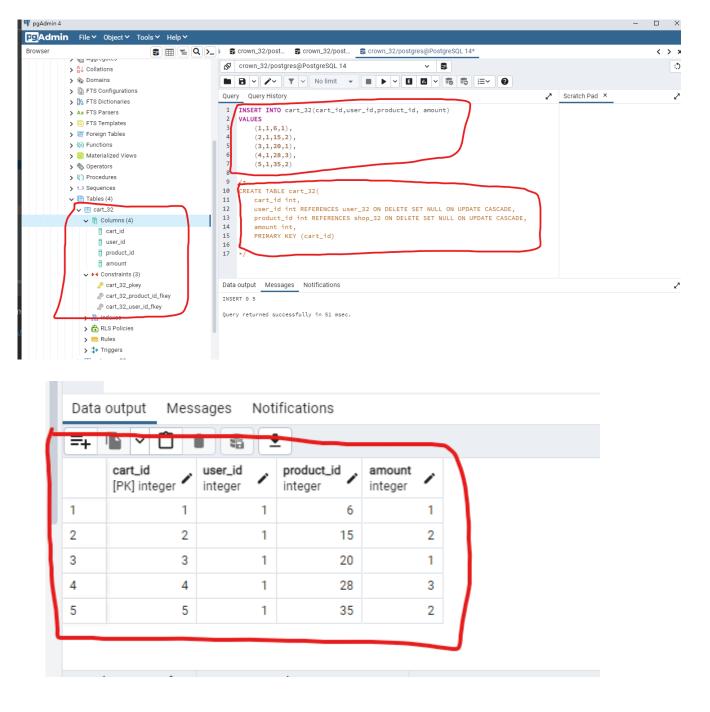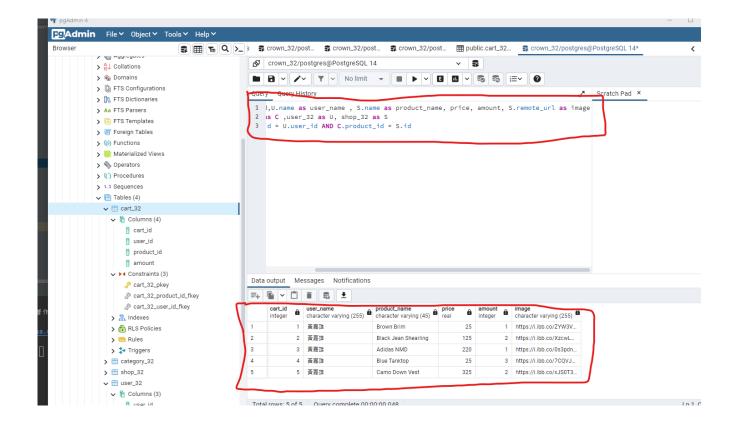# w17-p1: create user_xx in postgreSQL server, enter two data, the first one is about your
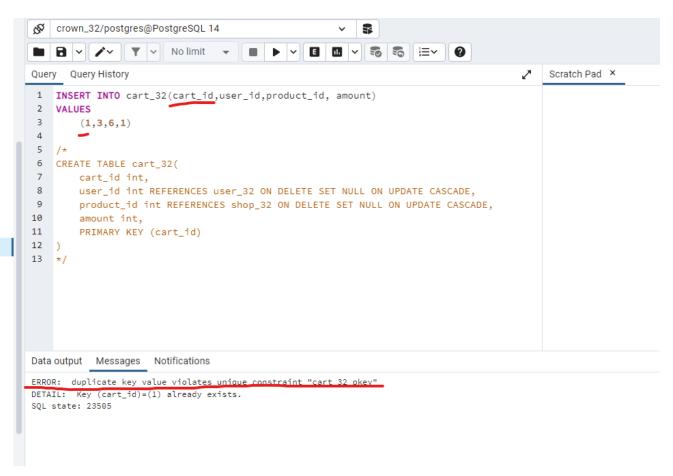

w17-p2: create cart_xx in postgreSQL server, enter five data, one for each category

```sql
1  INSERT INTO cart_32(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_32(
11     cart_id int,
12     user_id int REFERENCES user_32 ON DELETE SET NULL ON UPDATE CASCADE,
13     product_id int REFERENCES shop_32 ON DELETE SET NULL ON UPDATE CASCADE,
14     amount int,
15     PRIMARY KEY (cart_id)
16 )
17 */
```

Data output   Messages   Notifications

INSERT 0 5

Query returned successfully in 51 msec.

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

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

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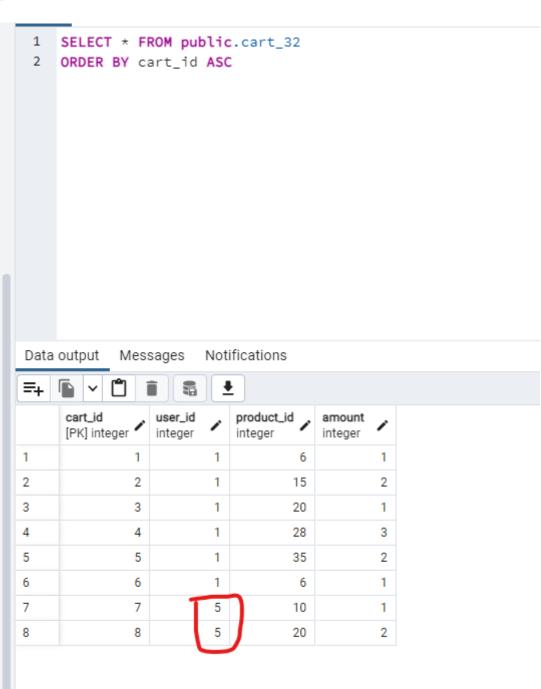


```
1   INSERT INTO cart_32(cart_id,user_id,product_id, amount)
2   VALUES
3       (1,3,6,1)
4
5   /*
6   CREATE TABLE cart_32(
7       cart_id int,
8       user_id int REFERENCES user_32 ON DELETE SET NULL ON UPDATE CASCADE,
9       product_id int REFERENCES shop_32 ON DELETE SET NULL ON UPDATE CASCADE,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

```
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

```
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

w17-p5.1: test ON UPDATE CASCASE

	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

```sql
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

Data output   Messages   Notifications

	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

	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