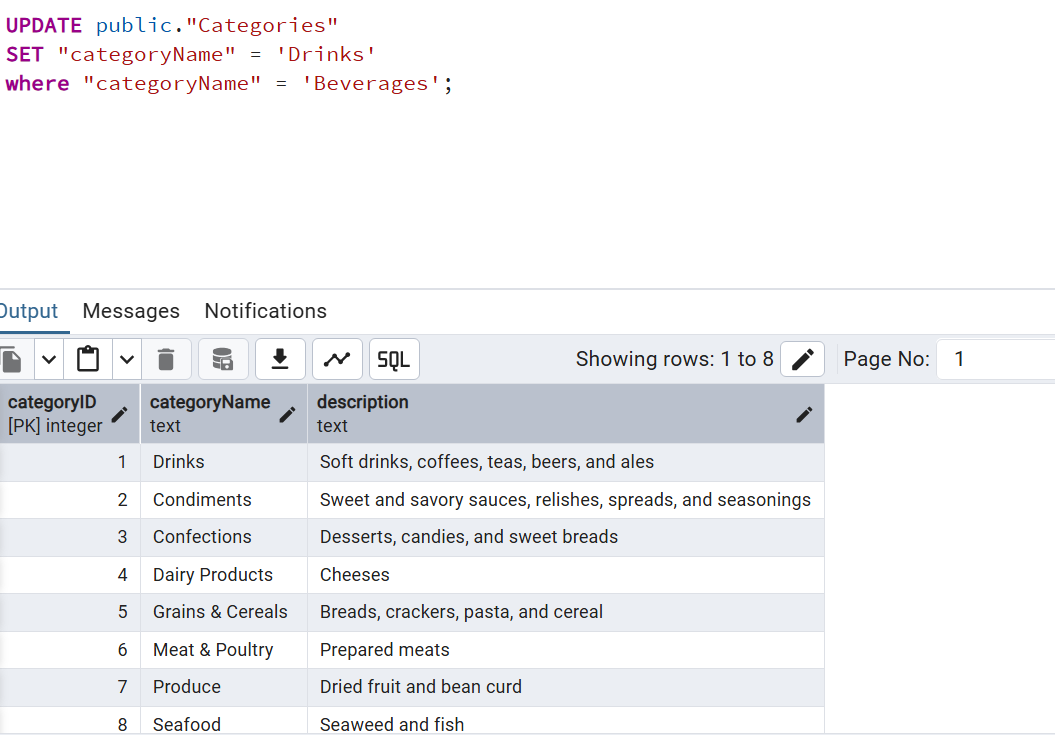
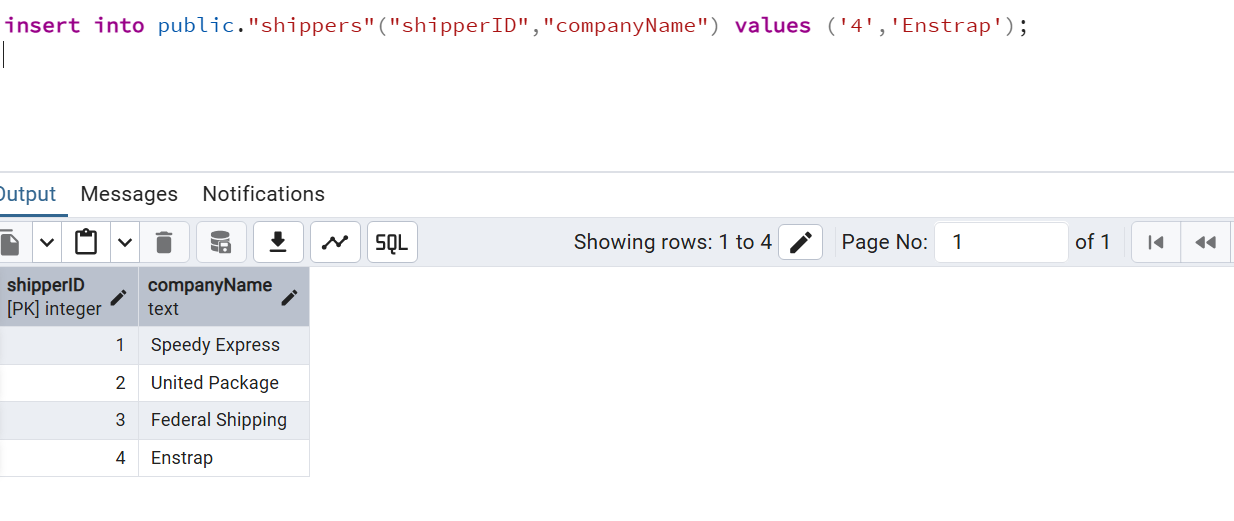
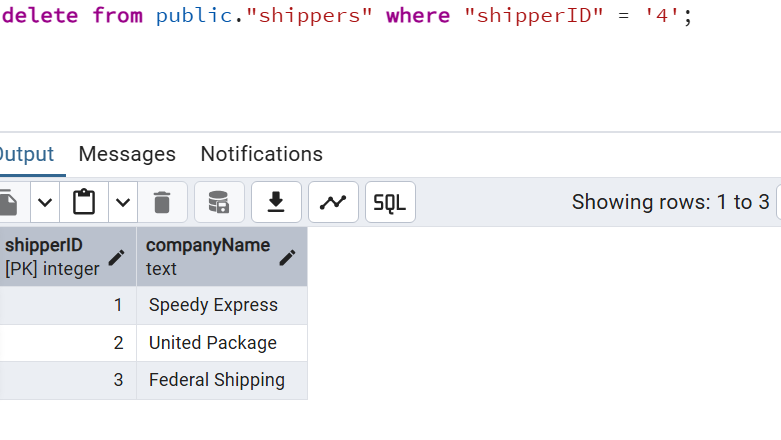
1) Update the categoryName From “Beverages” to "Drinks" in the categories table.

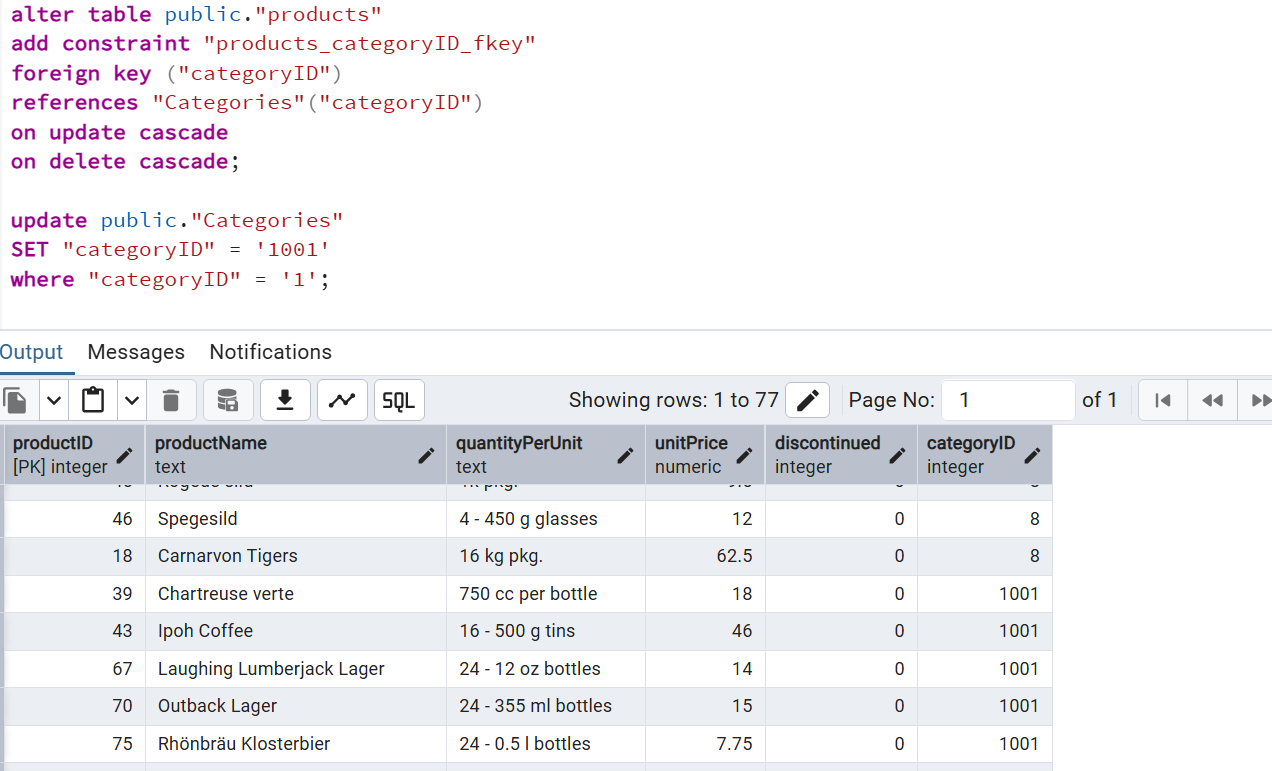


2) Insert into shipper new record (give any values) Delete that new record from shippers table.

Delete the new record from shipper table.



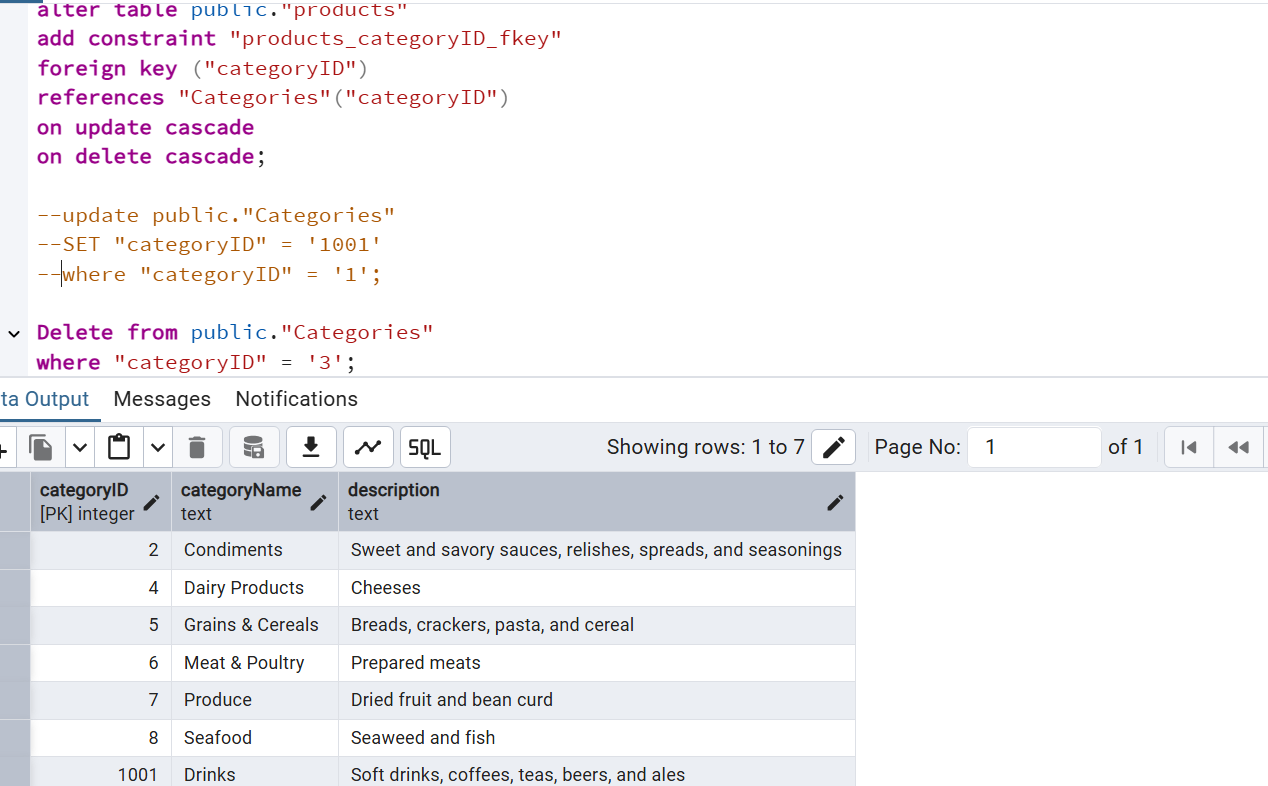
3) Update categoryID=1 to categoryID=1001. Make sure related products update their categoryID too. Display the both category and products table to show the cascade.

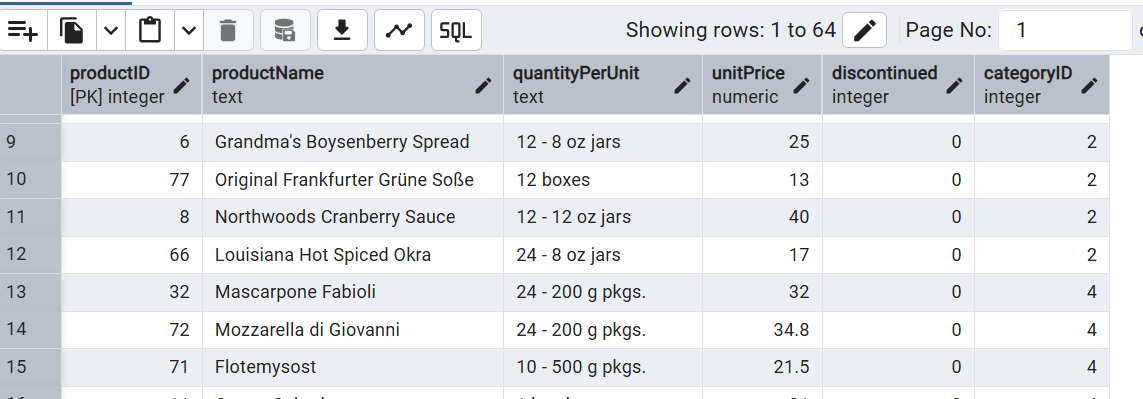


Delete the categoryID= “3” from categories. Verify that the corresponding records are deleted automatically from products.

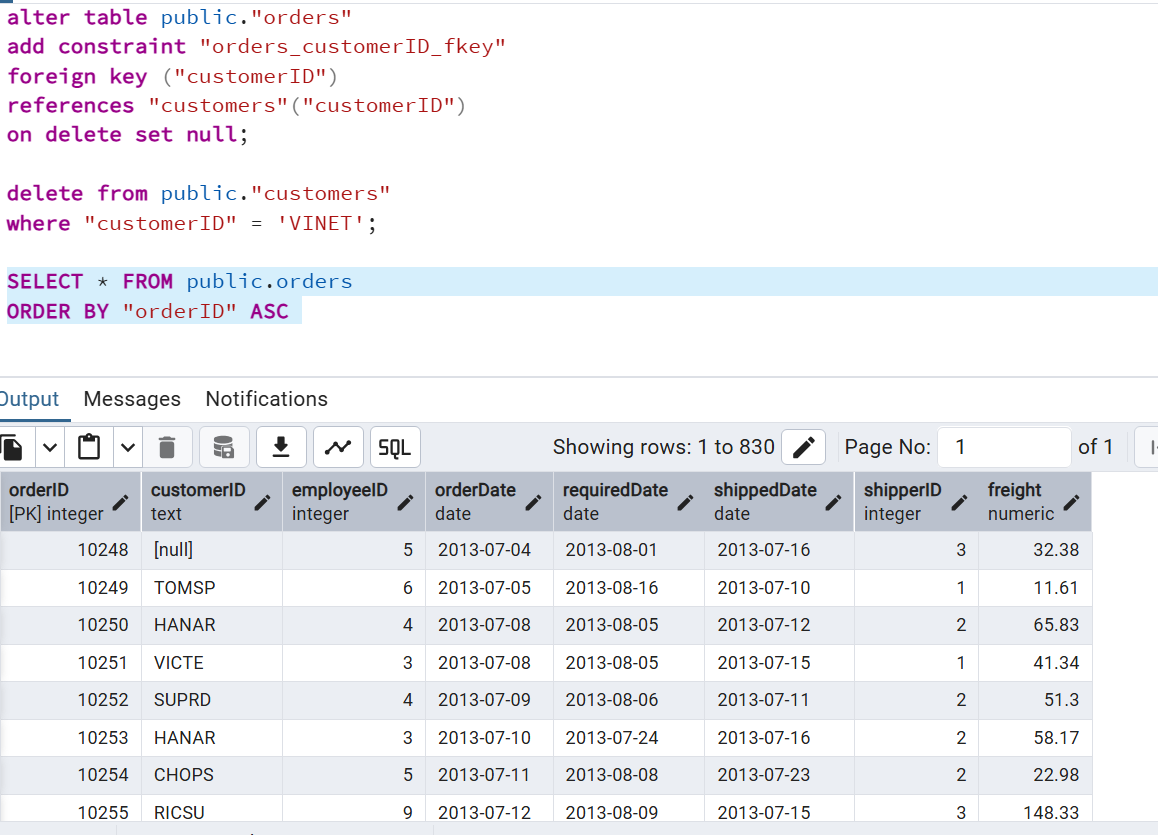
(HINT: Alter the foreign key on products(categoryID) to add ON UPDATE CASCADE, ON DELETE CASCADE, add ON DELETE CASCADE for order\_details(productid) )

alter table public."products" add constraint "products\_categoryID\_fkey" foreign key ("categoryID") references "Categories"("categoryID") on update cascade on delete cascade;



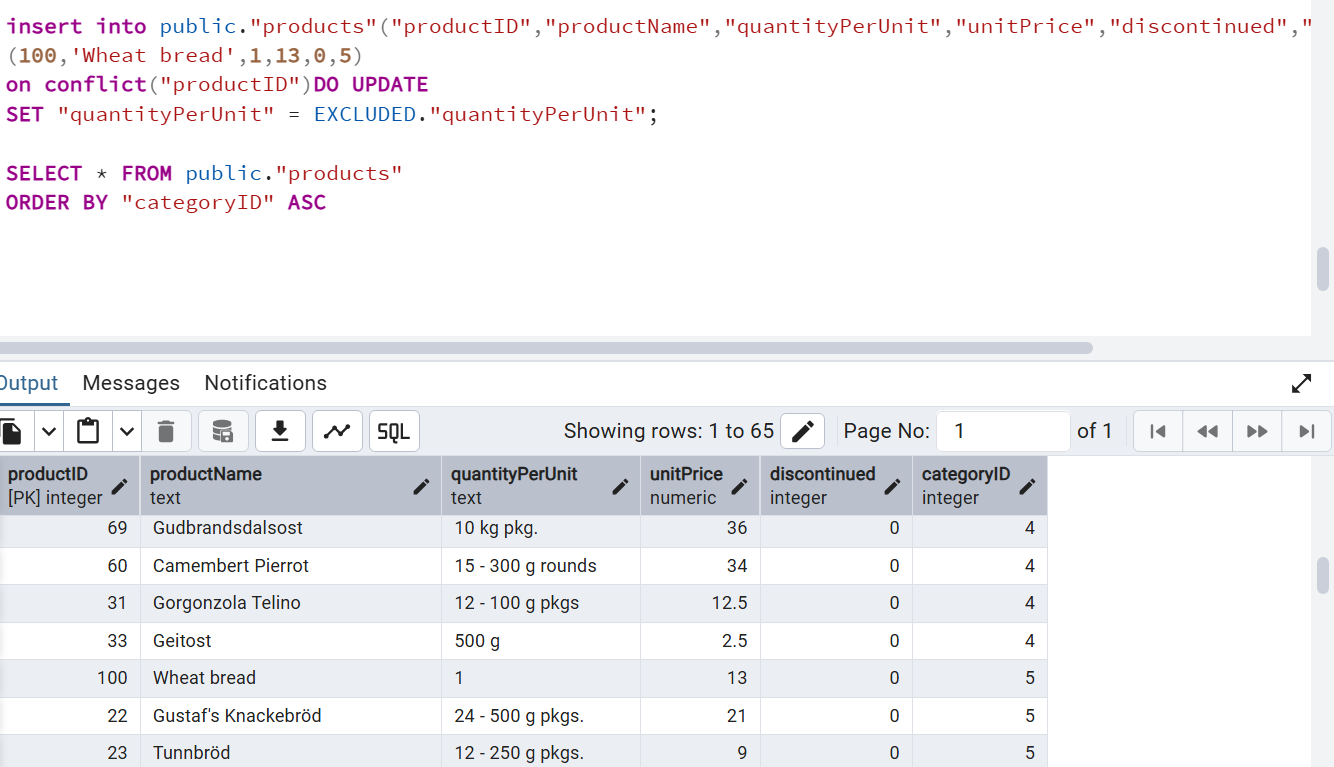


4) Delete the customer = “VINET” from customers. Corresponding customers in orders table should be set to null (HINT: Alter the foreign key on orders(customerID) to use ON DELETE SET NULL)



5) Insert the following data to Products using UPSERT:

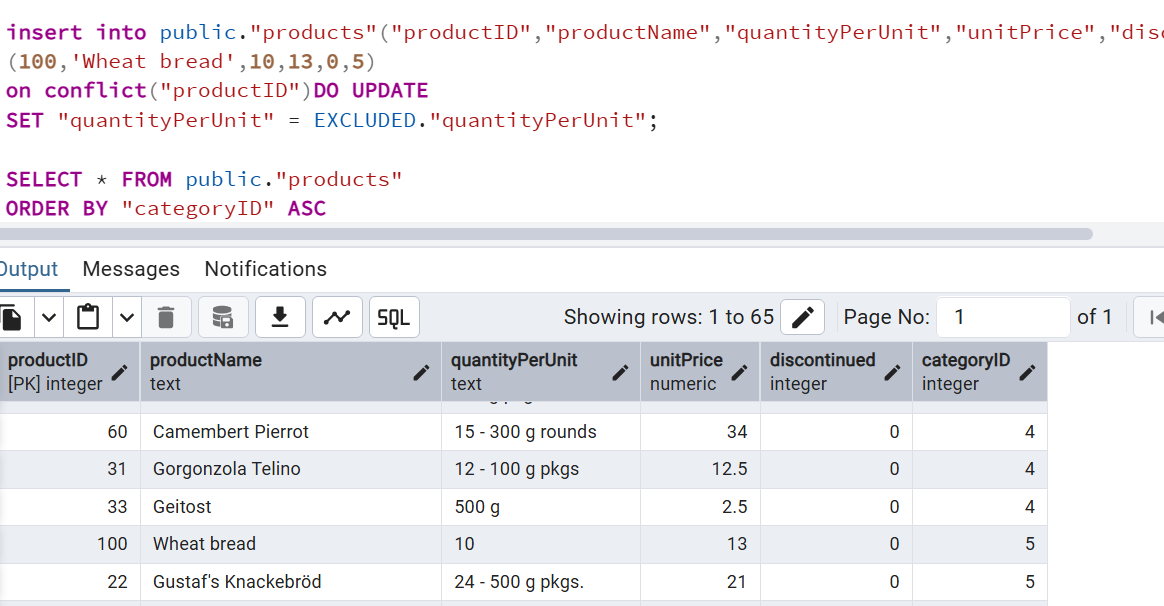
product\_id = 100, product\_name = Wheat bread, quantityperunit=1,unitprice = 13, discontinued = 0, categoryID=5



product\_id = 101, product\_name = White bread, quantityperunit=5 boxes,unitprice = 13, discontinued = 0, categoryID=5



product\_id = 100, product\_name = Wheat bread, quantityperunit=10 boxes,unitprice = 13, discontinued = 0, categoryID=5

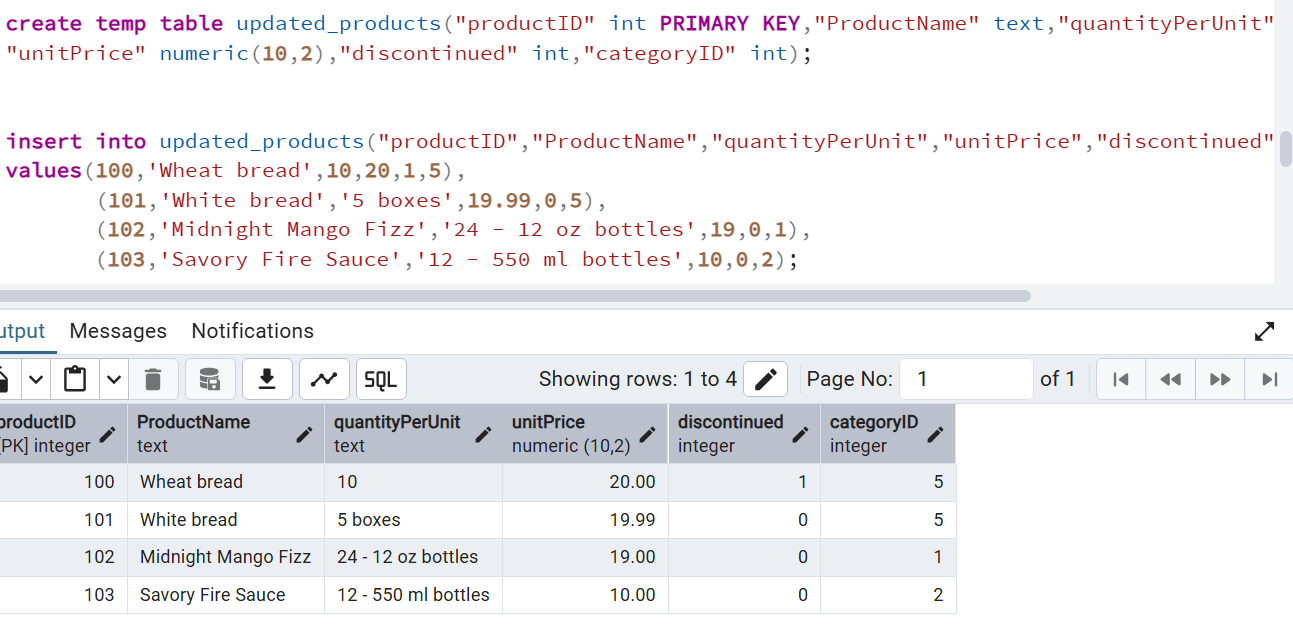


(this should update the quantityperunit for product\_id = 100)

6) Write a **MERGE query**:

Create **temp table with name:**  ‘updated\_products’ and insert values as below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| productID | productName | quantityPerUnit | unitPrice | discontinued | categoryID |
| 100 | Wheat bread | 10 | 20 | 1 | 5 |
| 101 | White bread | 5 boxes | 19.99 | 0 | 5 |
| 102 | Midnight Mango Fizz | 24 - 12 oz bottles | 19 | 0 | 1 |
| 103 | Savory Fire Sauce | 12 - 550 ml bottles | 10 | 0 | 2 |



* Update the price and discontinued status for from below table ‘updated\_products’ only if there are matching products and updated\_products .discontinued =0
* If there are matching products and updated\_products .discontinued =1 then delete

* Insert any new products from updated\_products that don’t exist in products only if updated\_products .discontinued =0.

**USE NEW Northwind DB:**

7) List all orders with employee full names. (Inner join)

