--Day 3

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

SELECT \* FROM categories

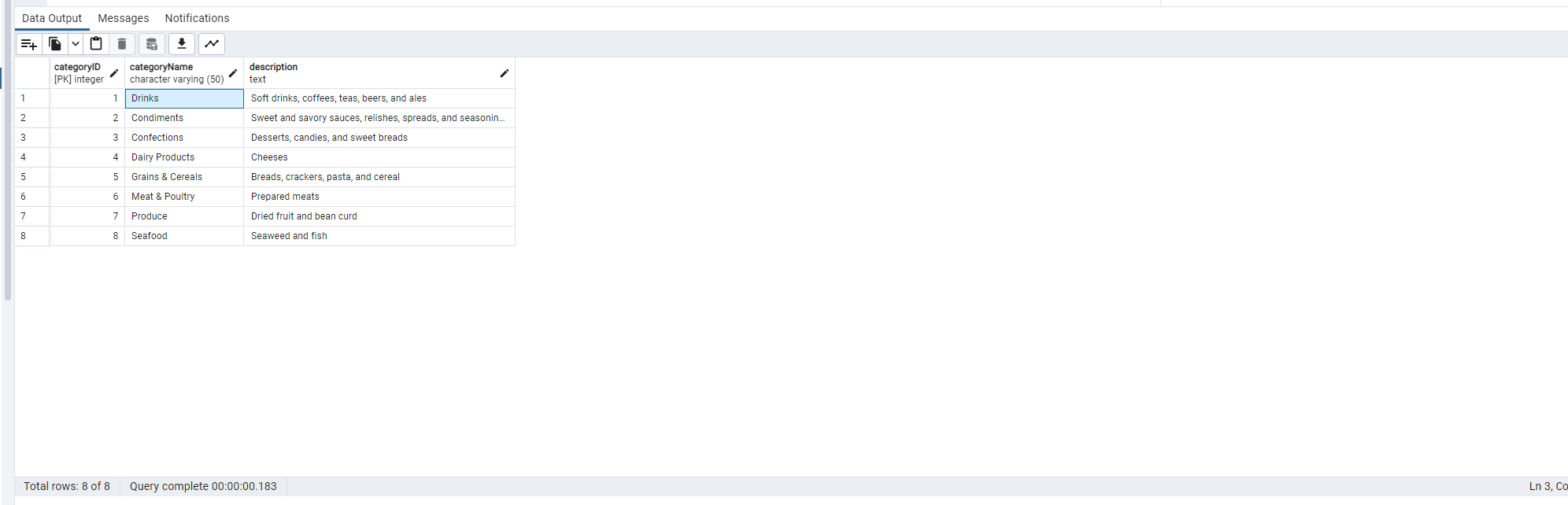
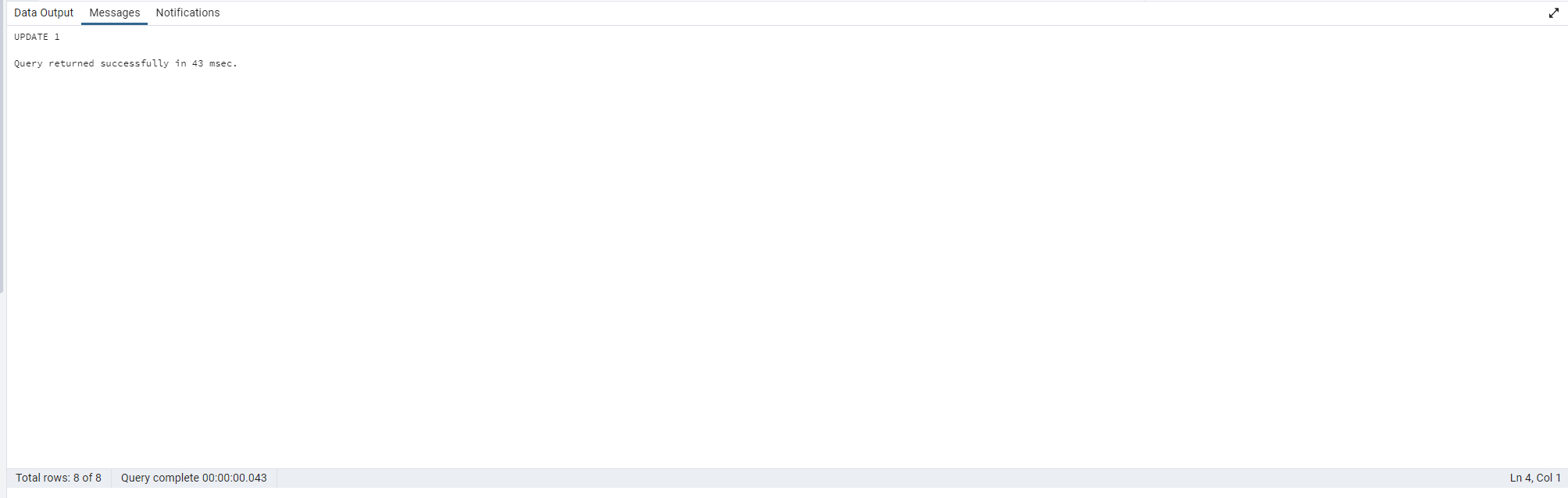
ORDER BY "categoryID";

UPDATE categories

SET "categoryName" = 'Drinks'

WHERE "categoryID" = 1

OUTPUT



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

INSERT INTO shippers ("shipperID","companyName")

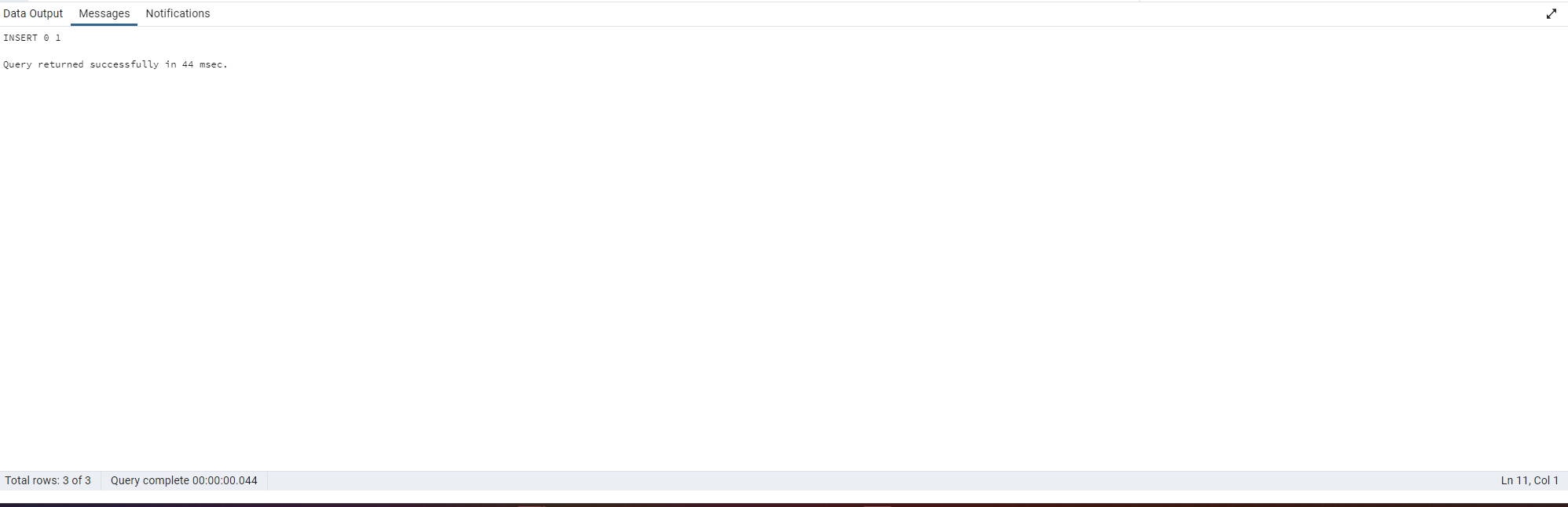
VALUES(4,'United Express')

SELECT \* FROM shippers;

DELETE FROM shippers

WHERE "shipperID"=4;

OUTPUT



--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.

-- Drop the existing foreign key constraint

ALTER TABLE products

DROP CONSTRAINT products\_categoryid\_fk;

ALTER TABLE products

ADD CONSTRAINT products\_categoryid\_fk

FOREIGN KEY ("categoryID")

REFERENCES categories("categoryID")

ON UPDATE CASCADE;

UPDATE categories

SET "categoryID" = 1001

WHERE "categoryID"=1;

SELECT \* FROM categories

WHERE "categoryID" = 1001;

SELECT \* FROM products

WHERE "categoryID" = 1001;

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

ALTER TABLE products

DROP CONSTRAINT products\_categoryid\_fk;

ALTER TABLE products

ADD CONSTRAINT products\_categoryid\_fk

FOREIGN KEY ("categoryID")

REFERENCES categories("categoryID")

ON DELETE CASCADE;

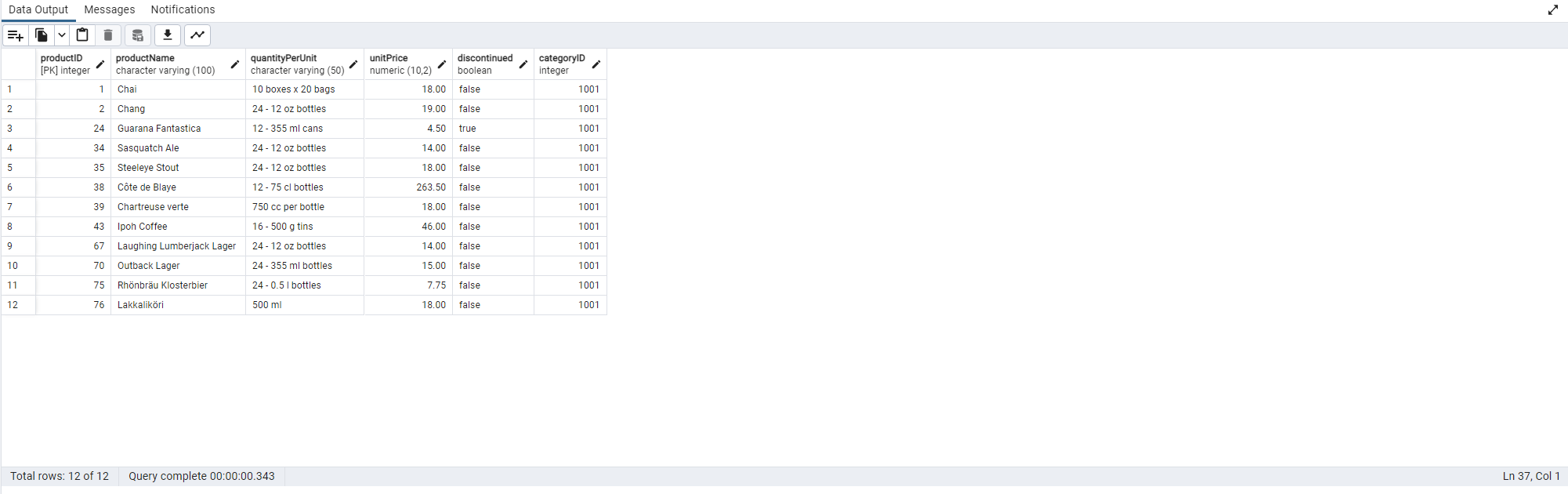
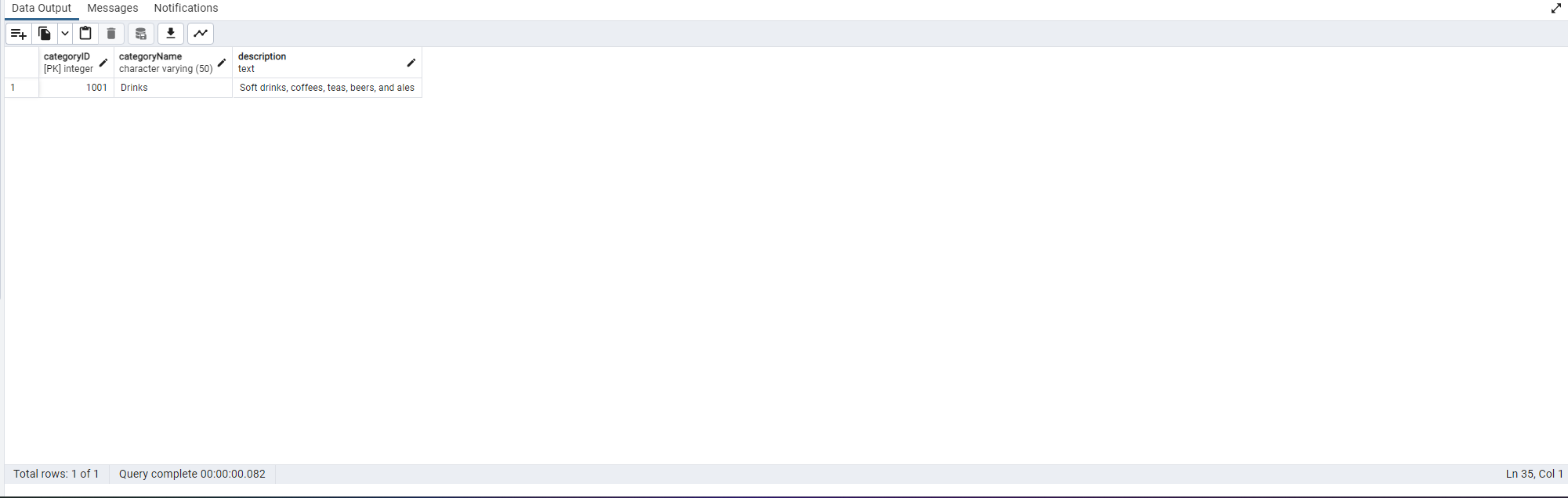
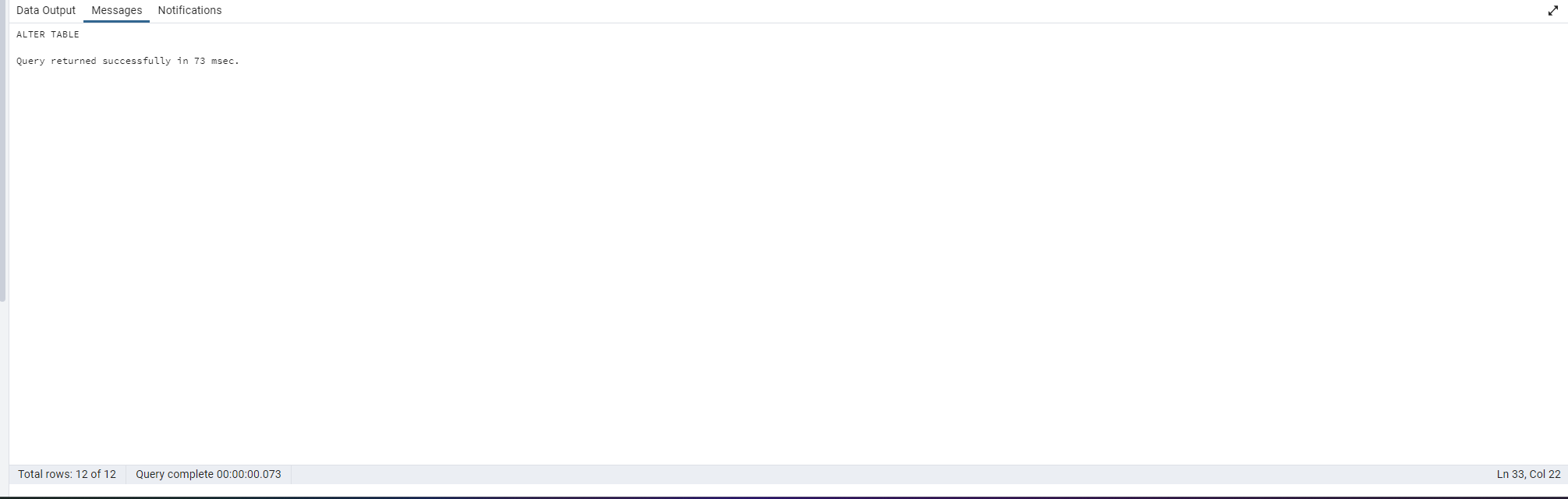
DELETE FROM categories

WHERE "categoryID"= 3

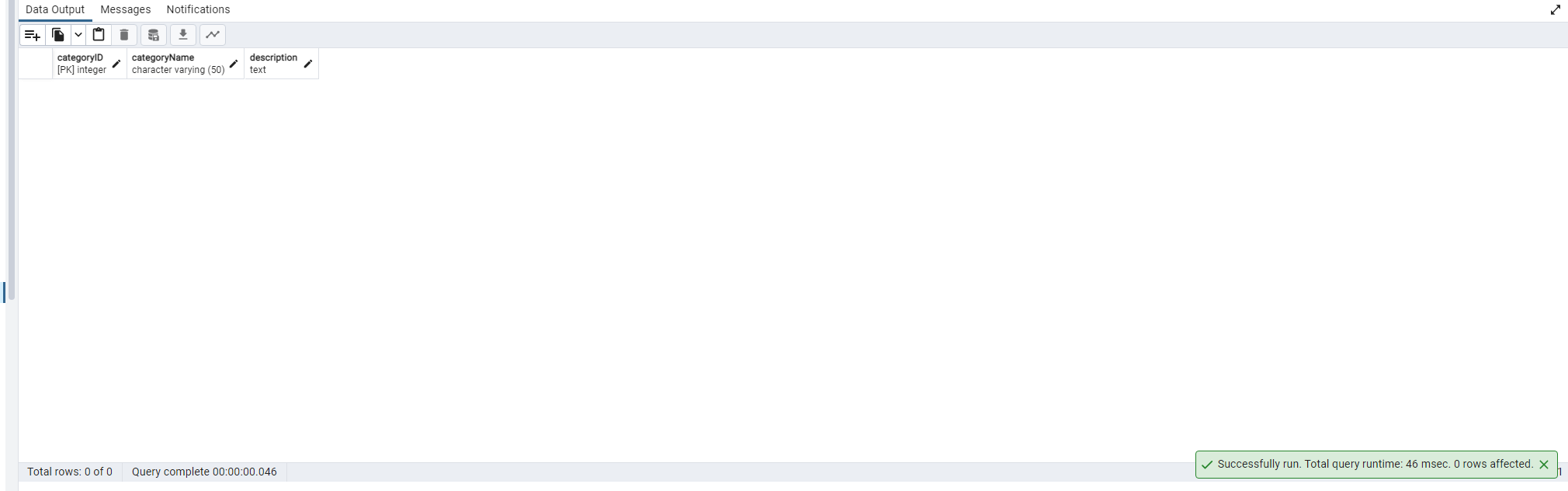
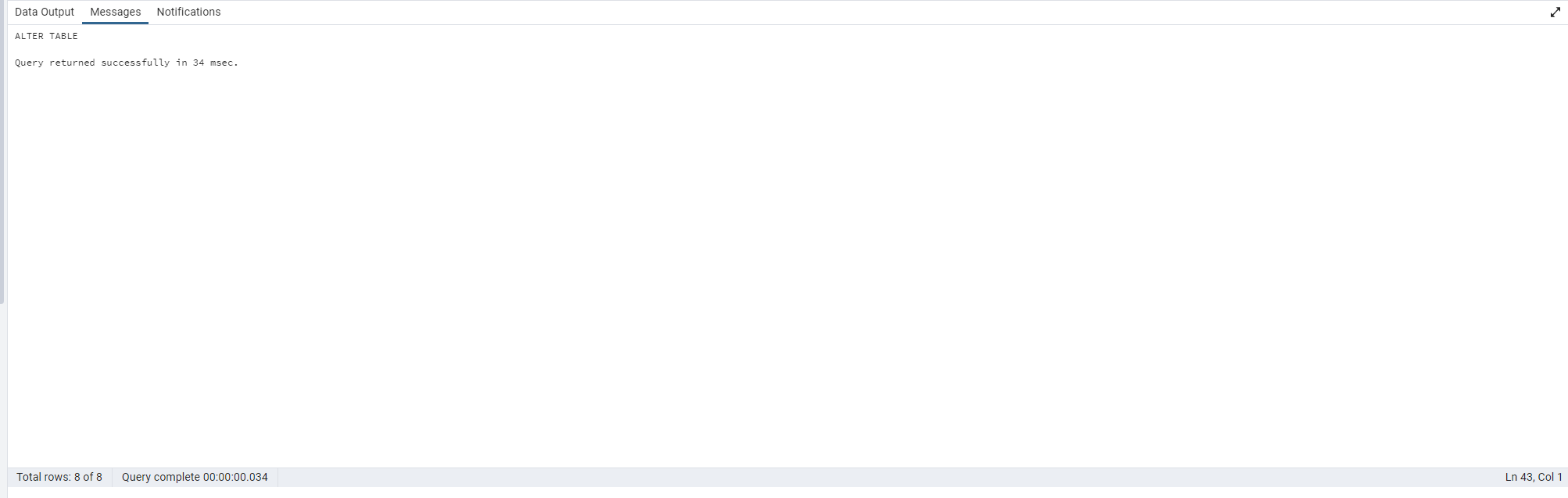
SELECT \* FROM categories

WHERE "categoryID" = 3;

OUTPUT



AFER DELETE



--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)

ALTER TABLE orders

DROP CONSTRAINT orders\_customerid\_fk;

ALTER TABLE orders

ADD CONSTRAINT orders\_customerid\_fk

FOREIGN KEY("customerID")

REFERENCES customers("customerID")

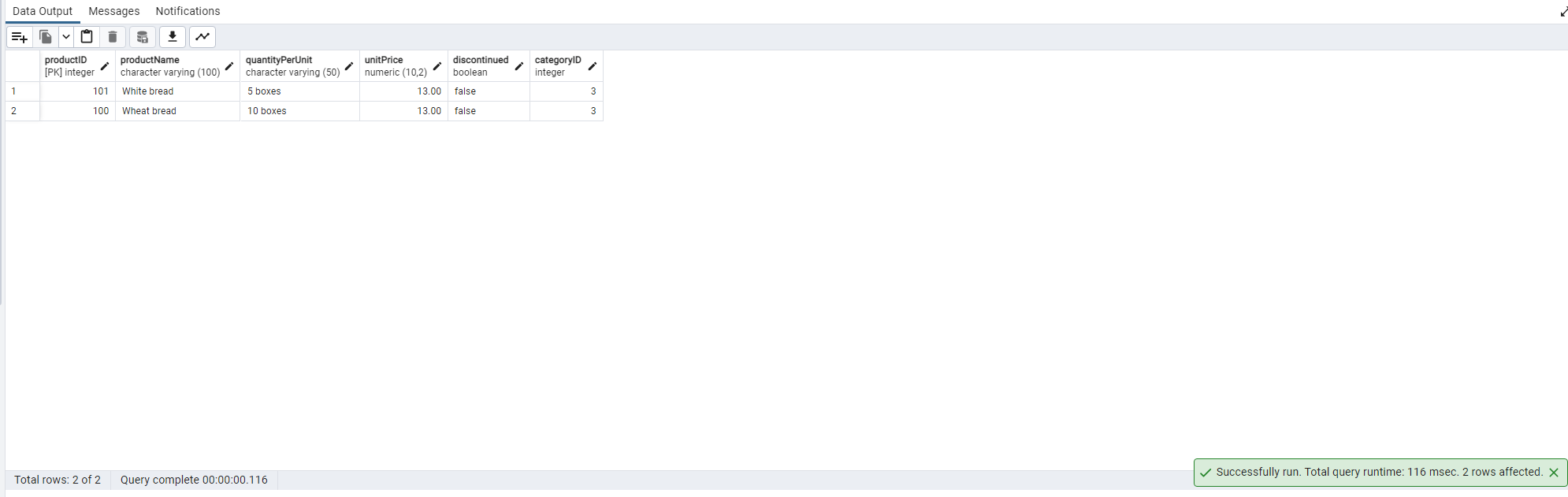
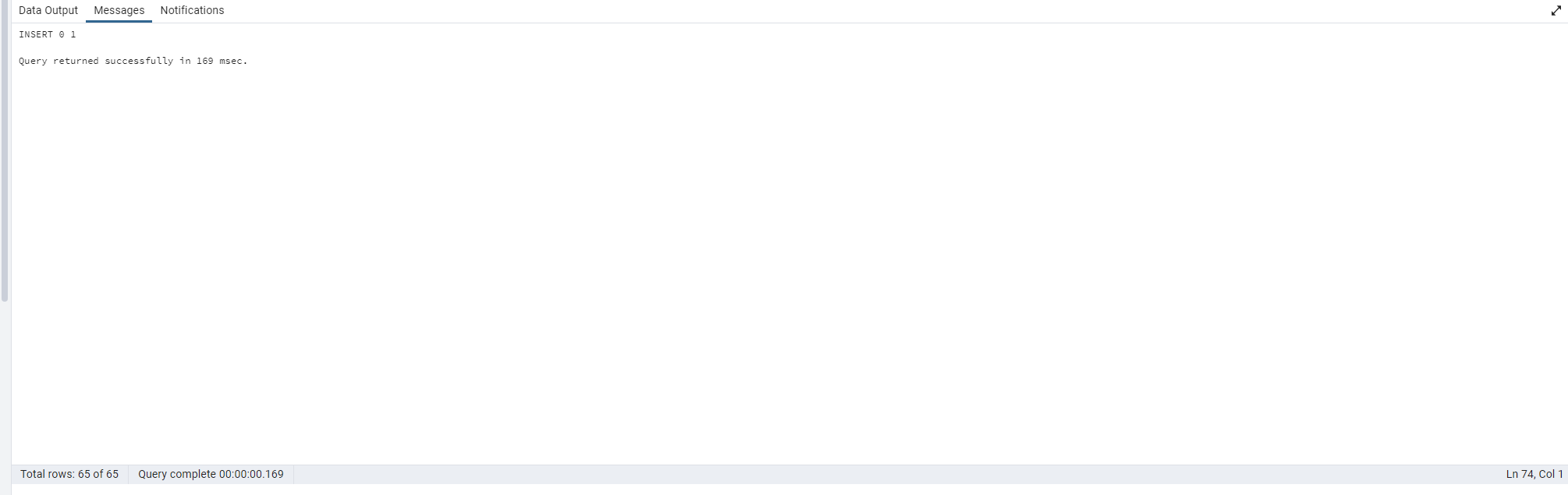
ON DELETE SET NULL;

DELETE FROM customers

WHERE "customerID" = 'VINET'

SELECT \* FROM customers

OUTPUT



--5)Insert the following data to Products using UPSERT:

--product\_id = 100, product\_name = Wheat bread, quantityperunit=1,unitprice = 13, discontinued = 0, categoryID=3

--product\_id = 101, product\_name = White bread, quantityperunit=5 boxes,unitprice = 13, discontinued = 0, categoryID=3

--product\_id = 100, product\_name = Wheat bread, quantityperunit=10 boxes,unitprice = 13, discontinued = 0, categoryID=3

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

INSERT INTO products ("productID", "productName", "quantityPerUnit", "unitPrice", "discontinued", "categoryID")

VALUES (100, 'Wheat bread', '1', 13, false, 3)

ON CONFLICT ("productID")

DO UPDATE SET

"productName" = EXCLUDED."productName",

"quantityPerUnit" = EXCLUDED."quantityPerUnit",

"unitPrice" = EXCLUDED."unitPrice",

"discontinued" = EXCLUDED."discontinued",

"categoryID" = EXCLUDED."categoryID";

INSERT INTO products ("productID", "productName", "quantityPerUnit", "unitPrice", "discontinued", "categoryID")

VALUES (101, 'White bread', '5 boxes', 13, false, 3)

ON CONFLICT ("productID")

DO UPDATE SET

"productName" = EXCLUDED."productName",

"quantityPerUnit" = EXCLUDED."quantityPerUnit",

"unitPrice" = EXCLUDED."unitPrice",

"discontinued" = EXCLUDED."discontinued",

"categoryID" = EXCLUDED."categoryID";

INSERT INTO products ("productID", "productName", "quantityPerUnit", "unitPrice", "discontinued", "categoryID")

VALUES (100, 'Wheat bread', '10 boxes', 13, false, 3)

ON CONFLICT ("productID")

DO UPDATE SET

"productName" = EXCLUDED."productName",

"quantityPerUnit" = EXCLUDED."quantityPerUnit",

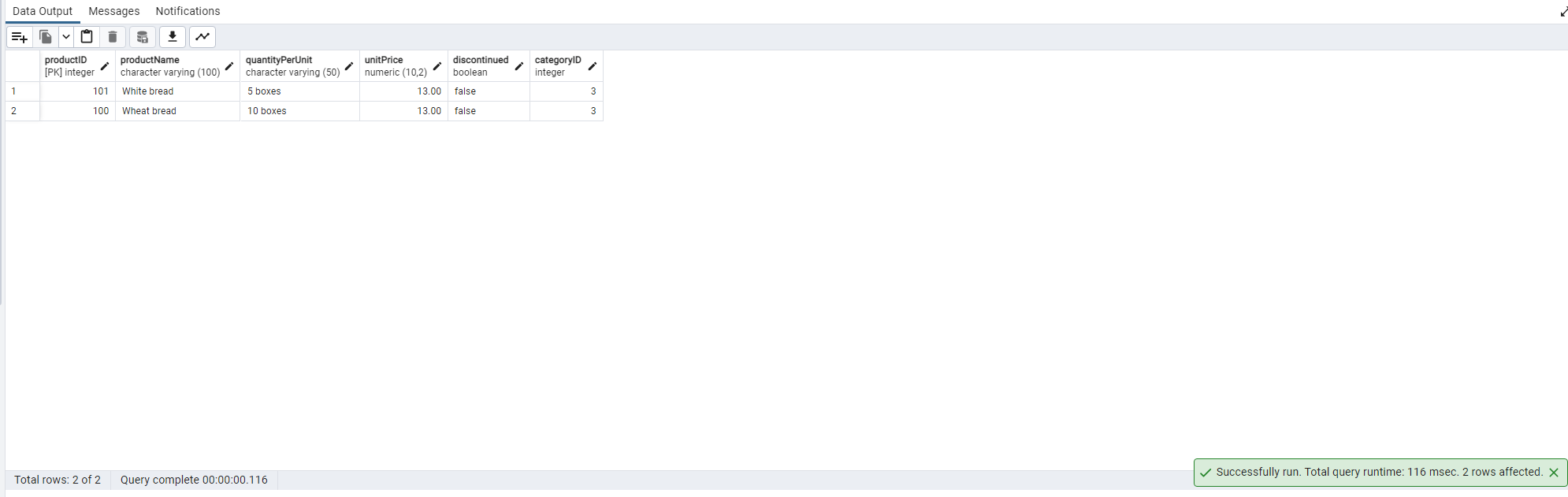
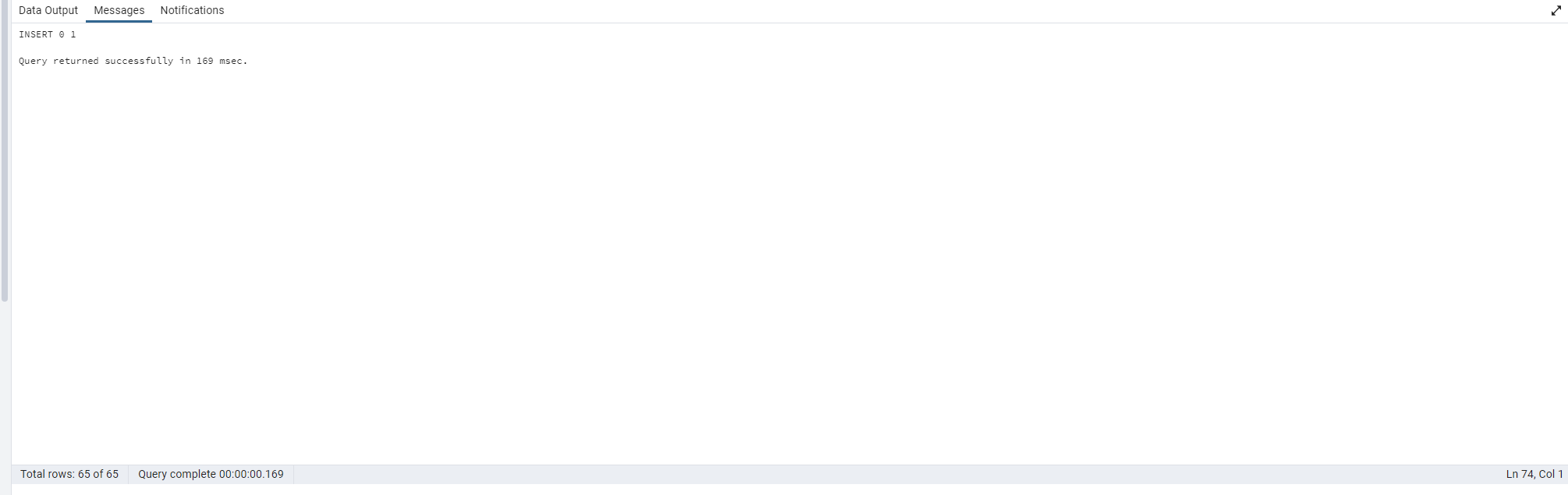
"unitPrice" = EXCLUDED."unitPrice",

"discontinued" = EXCLUDED."discontinued",

"categoryID" = EXCLUDED."categoryID";

SELECT \* FROM products WHERE "productID" IN (100, 101);

OUTPUT



--6) Write a MERGE query:

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

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

CREATE TABLE updated\_products(

productID INT PRIMARY KEY,

productName VARCHAR (100) NOT NULL,

quantityPerUnit VARCHAR(50),

unitPrice DECIMAL(10,2),

discontinued BOOLEAN,

categoryID INT

);

INSERT INTO updated\_products(productID, productName, quantityPerUnit, unitPrice, discontinued, categoryID)

VALUES (100, 'Wheat bread', '10', 20, true, 3),

(101, 'White bread', '5 boxes', 19.99, false, 3),

(102, 'Midnight Mango Fizz', '24 - 12 oz bottles', 19, false, 1),

(103, 'Savory Fire Sauce', '12 - 550 ml bottles', 10, false, 2)

WHEN MATCHED AND updated\_products .discontinued =0 THEN

UPDATE updated\_products

SET

unitPrice = products.unitPrice,

discontinued = products.discontinued

FROM products

WHERE updated\_products.productID = products.productID

AND updated\_products.discontinued = false;

SELECT \* FROM products WHERE "productID" IN (100, 101, 102, 103);

--If there are matching products and updated\_products .discontinued =1 then delete

CREATE TABLE updated\_products(

productID INT PRIMARY KEY,

productName VARCHAR (100) NOT NULL,

quantityPerUnit VARCHAR(50),

unitPrice DECIMAL(10,2),

discontinued BOOLEAN,

categoryID INT

);

INSERT INTO updated\_products(productID, productName, quantityPerUnit, unitPrice, discontinued, categoryID)

VALUES (100, 'Wheat bread', '10', 20, true, 3),

(101, 'White bread', '5 boxes', 19.99, false, 3),

(102, 'Midnight Mango Fizz', '24 - 12 oz bottles', 19, false, 1),

(103, 'Savory Fire Sauce', '12 - 550 ml bottles', 10, false, 2)

--MERGE

MERGE INTO products p

USING updated\_products up

ON (p."productID" = up.productID)

WHEN MATCHED AND up.discontinued = false THEN

UPDATE SET

"unitPrice" = up.unitPrice,

"discontinued" = up.discontinued

WHEN MATCHED AND up.discontinued = true THEN

DELETE

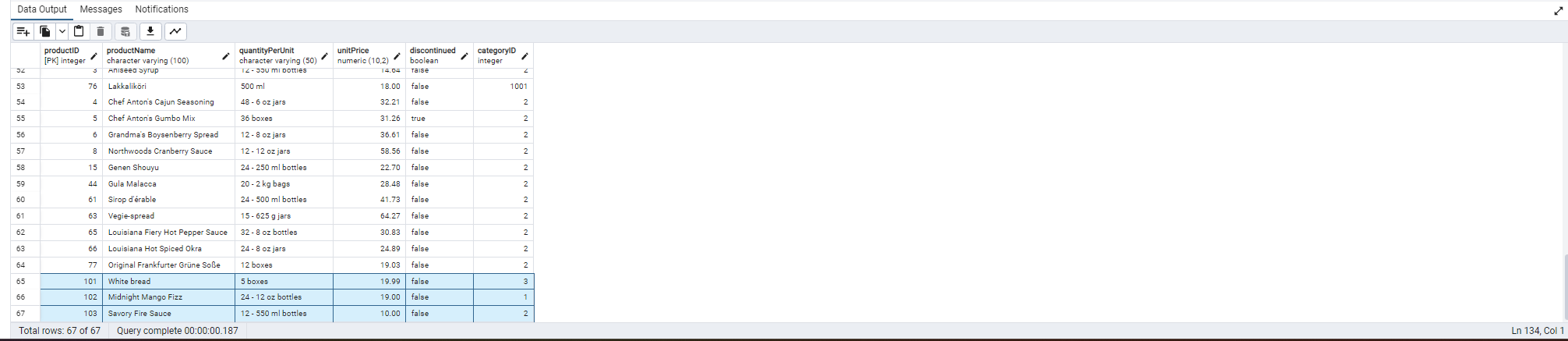
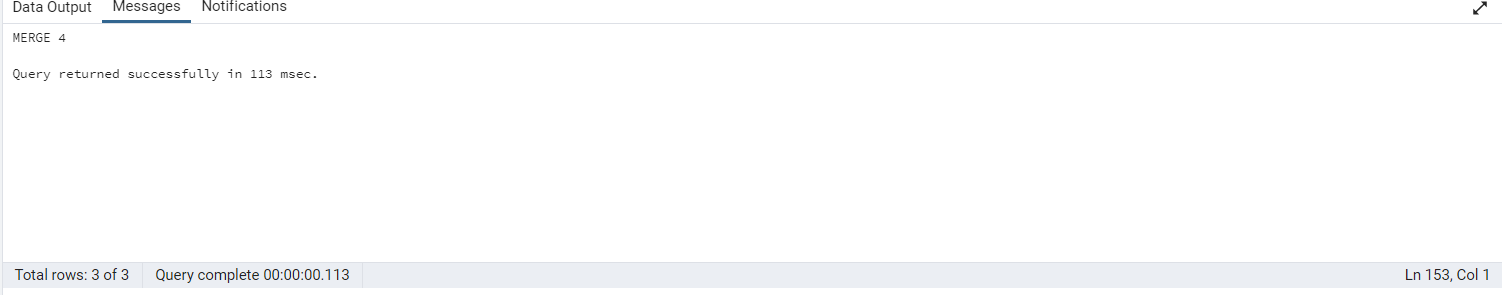
WHEN NOT MATCHED AND up.discontinued = false THEN

INSERT ("productID", "productName", "quantityPerUnit", "unitPrice", "discontinued", "categoryID")

VALUES (up.productID, up.productName, up.quantityPerUnit, up.unitPrice, up.discontinued, up.categoryID);

SELECT \* FROM products;

OUTPUT



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

SELECT

o.order\_id,

o.order\_date,

o.required\_date,

o.shipped\_date,

o.ship\_via,

o.freight,

o.ship\_name,

o.ship\_address,

o.ship\_city,

o.ship\_region,

o.ship\_postal\_code,

o.ship\_country,

e.employee\_id,

e.first\_name || ' ' || e.last\_name AS employeefullname

FROM

orders o

INNER JOIN

employees e ON o.employee\_id = e.employee\_id

ORDER BY

o.order\_id;

OUTPUT

