1. Create AFTER UPDATE trigger to track product price changes

· Create product\_price\_audit table with below columns:

audit\_id SERIAL PRIMARY KEY,

product\_id INT,

product\_name VARCHAR(40),

old\_price DECIMAL(10,2),

new\_price DECIMAL(10,2),

change\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

user\_name VARCHAR(50) DEFAULT CURRENT\_USER

· Create a trigger function with the below logic:

INSERT INTO product\_price\_audit (

product\_id,

product\_name,

old\_price,

new\_price

)

VALUES (

OLD.product\_id,

OLD.product\_name,

OLD.unit\_price,

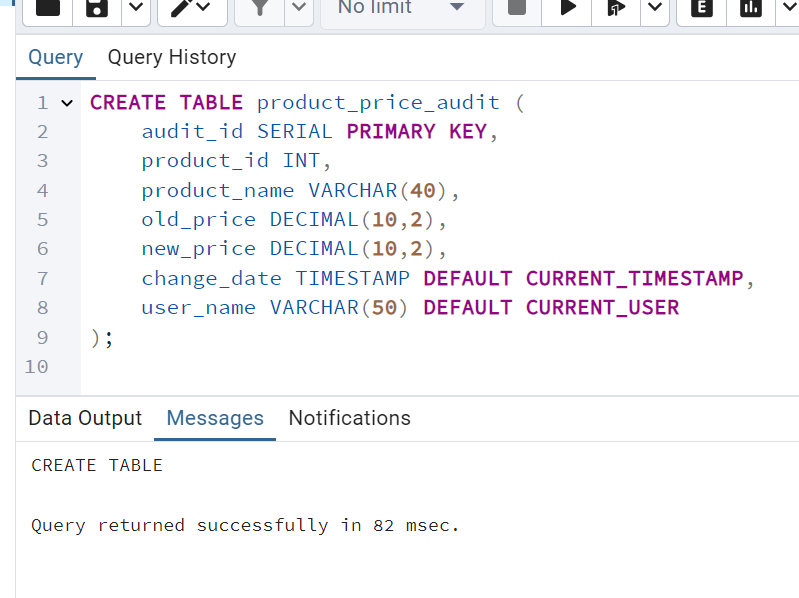
NEW.unit\_price

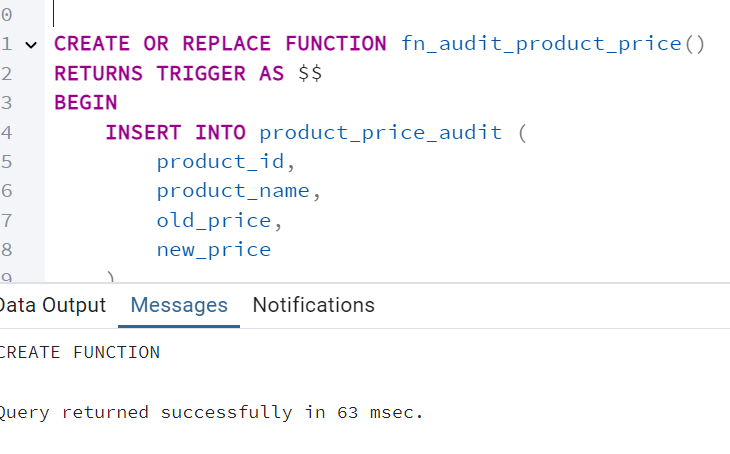
);

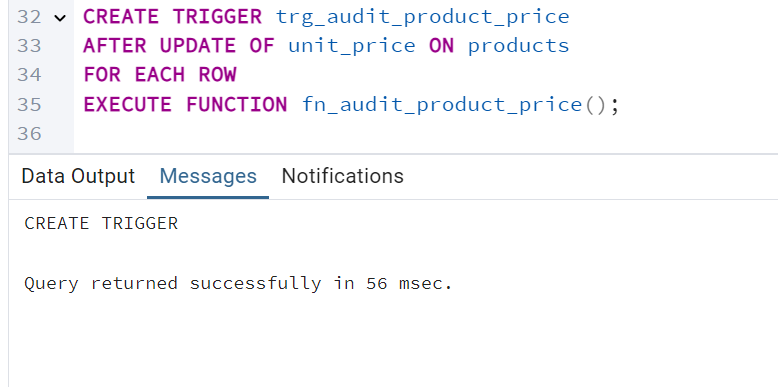
· Create a row level trigger for below event:

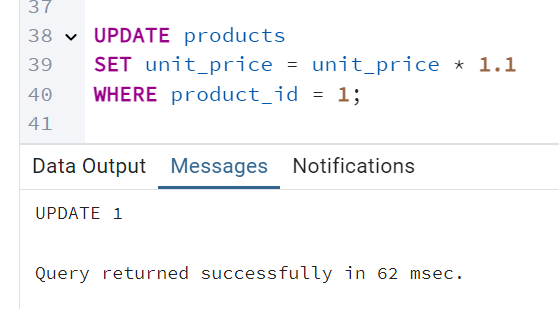
AFTER UPDATE OF unit\_price ON products

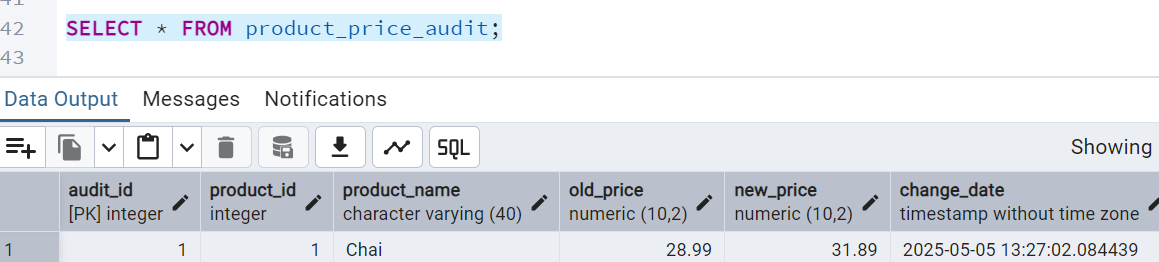
· Test the trigger by updating the product price by 10% to any one product\_id.











2. Create stored procedure using IN and INOUT parameters to assign tasks to employees

· Parameters:

IN p\_employee\_id INT,

IN p\_task\_name VARCHAR(50),

INOUT p\_task\_count INT DEFAULT 0

· Inside Logic: Create table employee\_tasks:

CREATE TABLE IF NOT EXISTS employee\_tasks (

task\_id SERIAL PRIMARY KEY,

employee\_id INT,

task\_name VARCHAR(50),

assigned\_date DATE DEFAULT CURRENT\_DATE

);

· Insert employee\_id, task\_name into employee\_tasks

· Count total tasks for employee and put the total count into p\_task\_count .

· Raise NOTICE message:  
 RAISE NOTICE 'Task "%" assigned to employee %. Total tasks: %',

p\_task\_name, p\_employee\_id, p\_task\_count;

After creating stored procedure test by calling it:

CALL assign\_task(1, 'Review Reports');

You should see the entry in employee\_tasks table.

