1**.      Create AFTER UPDATE trigger to track product price changes**

**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.**

SELECT \* FROM products

CREATE TABLE product\_price\_audit(

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 OR REPLACE FUNCTION log\_price\_change()

RETURNS TRIGGER

AS

$$

BEGIN

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);

RETURN NEW;

END;

$$ LANGUAGE plpgsql;

CREATE TRIGGER after\_update\_price\_trigger1

AFTER UPDATE OF unit\_price ON products

FOR EACH ROW

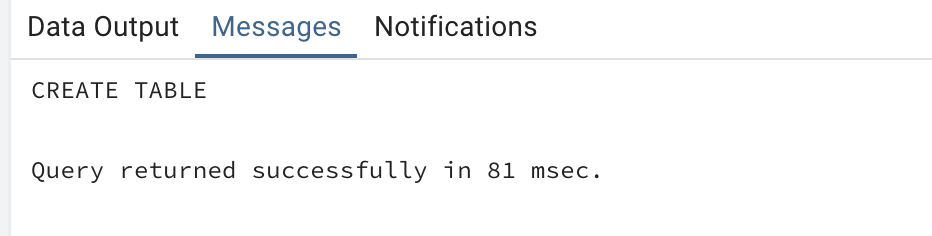
EXECUTE FUNCTION log\_price\_change();

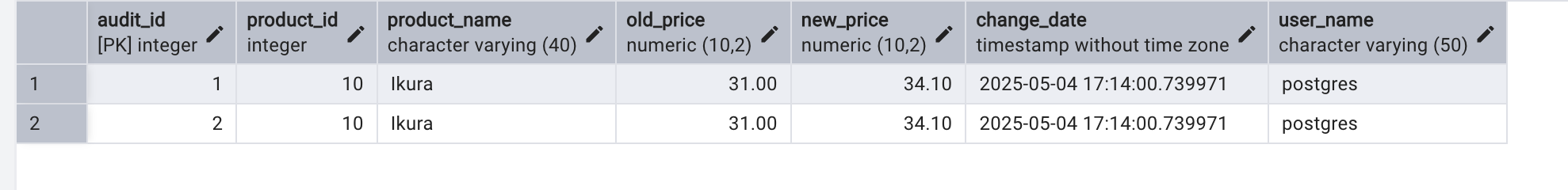
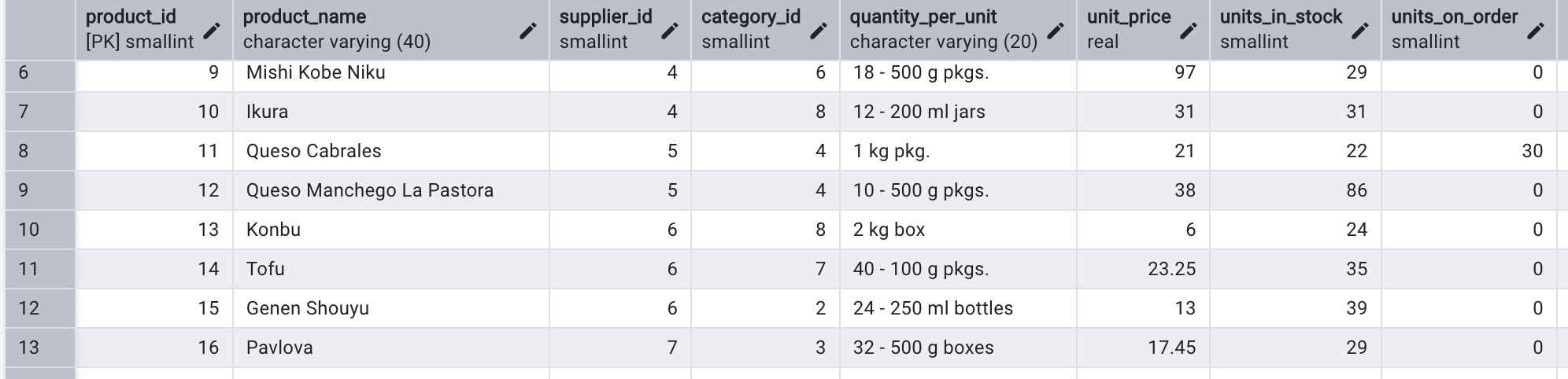
UPDATE products

SET unit\_price = unit\_price \* 1.10

WHERE product\_id = 10;

SELECT \* FROM product\_price\_audit;

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

**After creating stored procedure test by calling  it:**

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

**You should see the entry in employee\_tasks table.**

SELECT \* FROM employees

CREATE OR REPLACE PROCEDURE assign\_task(

IN p\_employee\_id INT,

IN p\_task\_name VARCHAR(50),

INOUT p\_task\_count INT DEFAULT 0

)

LANGUAGE plpgsql

AS $$

BEGIN

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 INTO employee\_tasks(employee\_id,task\_name)

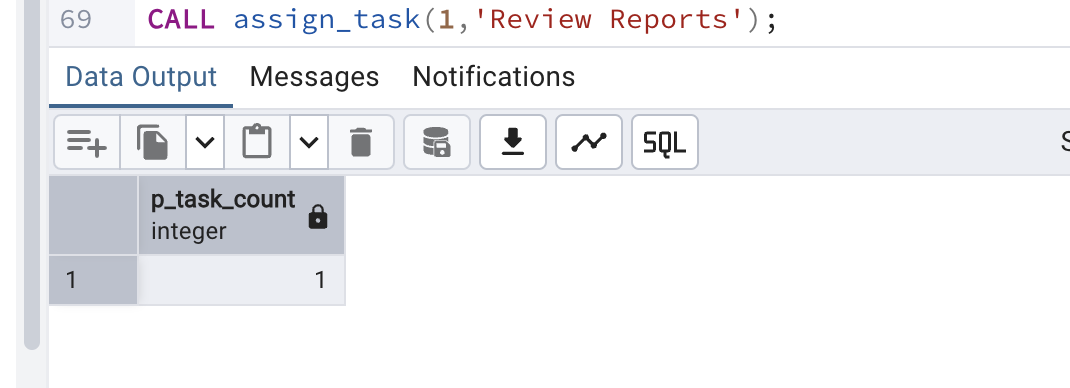
VALUES(p\_employee\_id,p\_task\_name);

SELECT COUNT(\*) INTO p\_task\_count

FROM employee\_tasks

WHERE employee\_id = p\_employee\_id;

RAISE NOTICE 'Task "%" assigned to employee %. Total tasks: %',p\_task\_name,p\_employee\_id,p\_task\_count;



END;

$$;