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.

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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.

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