**Day 10 SQL Bootcamp Assignment**

**1.Write a function to Calculate the total stock value for a given category:**

**(Stock value=ROUND(SUM(unit\_price \* units\_in\_stock)::DECIMAL, 2)**

**Return data type is DECIMAL(10,2)**

**QUERY**

**CREATE FUNCTION calculate\_stock\_value(category\_id\_param INT)**

**RETURNS DECIMAL(10,2) AS**

**$$**

**DECLARE stock\_value DECIMAL(10,2);**

**BEGIN**

**SELECT ROUND(SUM(unit\_price \* units\_in\_stock)::DECIMAL, 2)**

**INTO stock\_value**

**FROM products**

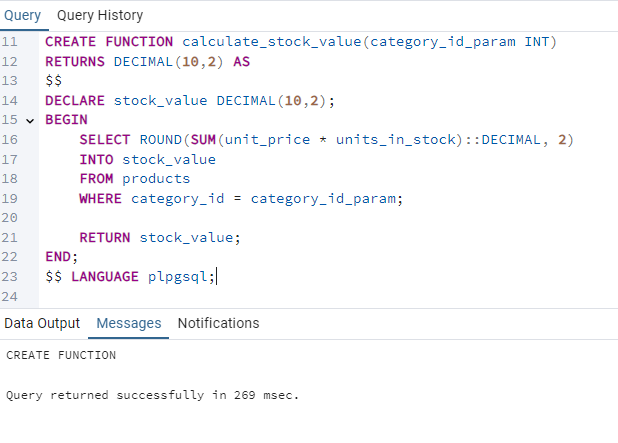
**WHERE category\_id = category\_id\_param;**

**RETURN stock\_value;**

**END;**

**$$ LANGUAGE plpgsql;**

**SELECT calculate\_stock\_value(1);**

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**2.Cursor Query**

**QUERY**

**CREATE**

**create or replace procedure update\_prices\_with\_cursor()**

**language plpgsql**

**as $$**

**declare**

**product\_cursor cursor for**

**select product\_id,product\_name,unit\_price,units\_in\_stock from products where discontinued=0;**

**product\_record record;**

**v\_new\_price decimal(10,2);**

**Begin**

**open product\_cursor;**

**loop**

**fetch product\_cursor into product\_record;**

**exit when not found;**

**---new price calculation**

**if product\_record.units\_in\_stock < 10 THEN**

**v\_new\_price:=product\_record.unit\_price \* 1.1;**

**else**

**v\_new\_price:=product\_record.unit\_price \* 0.95;**

**end if;**

**UPDATE products**

**SET unit\_price=Round(v\_new\_price,2)**

**WHERE product\_id = product\_record.product\_id;**

**raise notice 'Updated price % from % to %',**

**product\_record.product\_name,**

**product\_record.unit\_price,**

**v\_new\_price;**

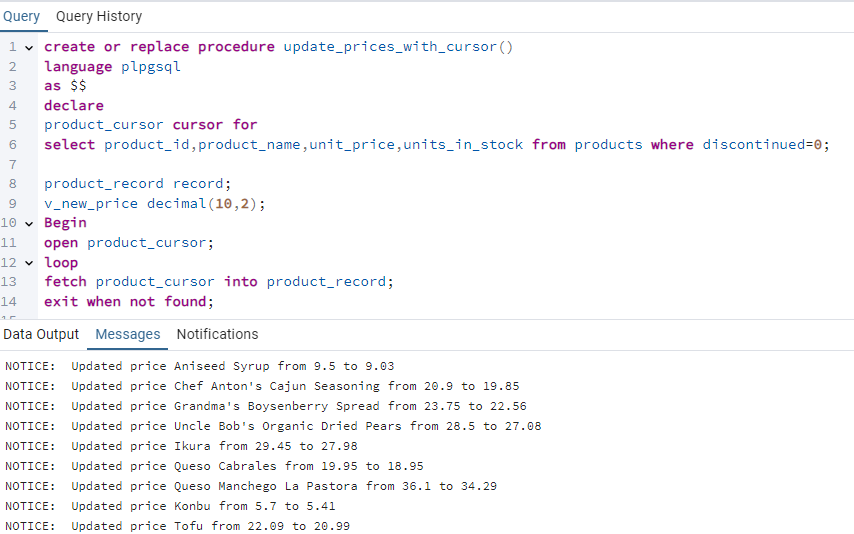
**end loop;**

**close product\_cursor;**

**end ;**

**$$;**

**Call update\_prices\_with\_cursor();**

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