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Practice: Testing

#### **PL-SQL**

- Procedural Language extensions to the Structured Query Language
- Block structured and Readable Language
- Embedded language only executed in Oracle database
- It has more procedural constructs to SQL language to overcome some limitations of SQL
- PLSQL is a block structured language

#### A block has 3 sections

- 1. Declaration section
- 2. Execution section (Mandate)
- 3. Exception handling section

A block without name is Anonymous block and can't be reused because it is not saved in oracle database server - one time use

A named block is saved into Oracle Database Server, and it can be reused later

#### **Syntax:**

**DECLARE** 

declaration section

**BEGIN** 

execution section

**EXCEPTION** 

exception section

END:

#### **Comments:**

-- (Single Line)

/\* ... \*/ (Multi Line)

### **Data Types:**

#### 2 Types

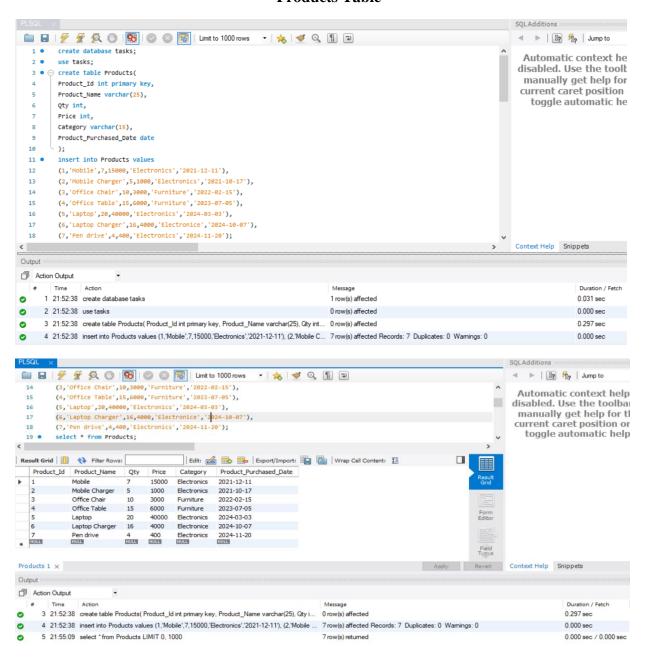
- 1. Scalar Holds single value
- Number (Integers / Floating points)

- Boolean (True / False / Null)
- Character (Char / Varchar2)
- Datetime
- Composite Holds multiple values

#### Records

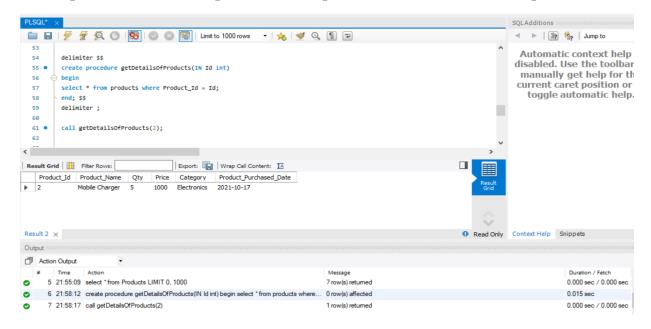
#### Collections

#### **Products Table**



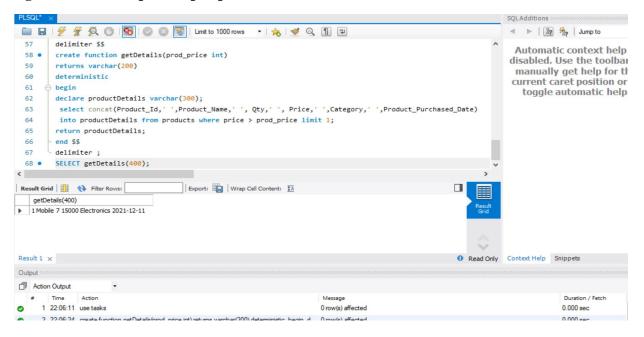
### **Question 1**

#### Create procedure that takes product id as input and returns details of that product details



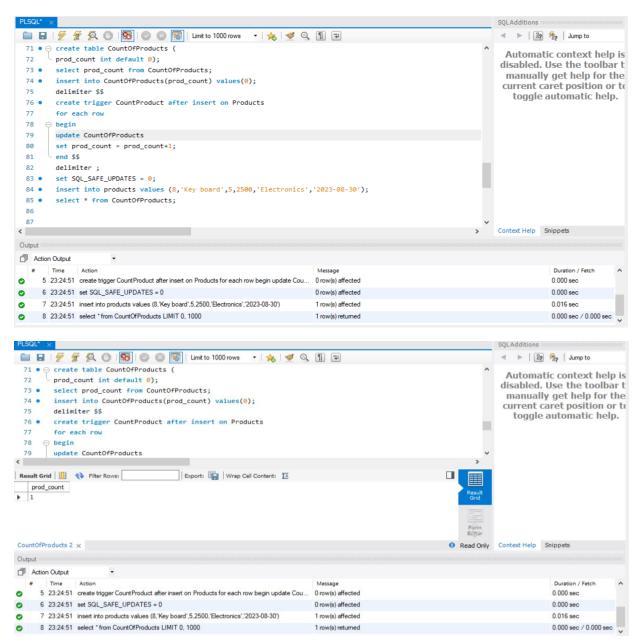
## **Question 2**

Create function takes price as an argument and returns details of the product whose price is greater than the price input parameter



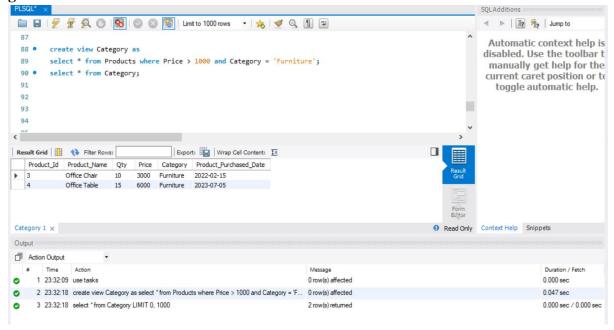
### **Question 3**

# Create a trigger that displays the count of rows after inserting a new record in products table



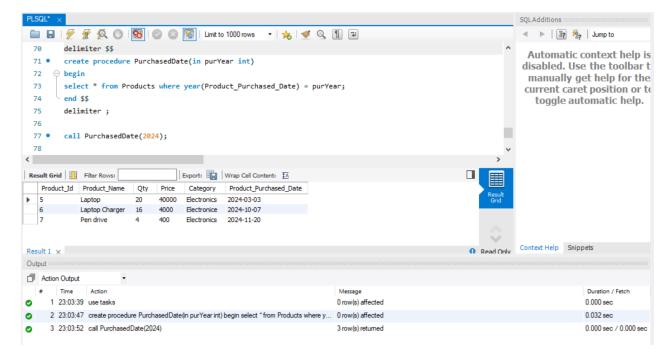
**Question 4** 

## Create a view that displays the details of Products from Furniture Category and price greater than 1000



**Question 5** 

## Write a procedure that returns the details of products which will be purchased in this year



**Question 6** 

## Create a view that displays the details of highest product price

