Database Programming with PL/SQL
1-1: Introduction to PL/SQL
Practice Activities

Vocabulary

Identify the vocabulary word for each definition below:

	Programming language features such as reusable/callable program units, modular blocks, cursors, constants, variables, assignment statements, conditional control statements, and loops
	Oracle Corporations standard procedural language for relational databases which allows basic program logic and control flow to be combined with SQL statements

Try It / Solve It

1. Circle the programming language meeting the criteria

Criteria	Language	
3GL	PL/SQL	SQL
4GL	PL/SQL	SQL
Is proprietary to Oracle Corporation	PL/SQL	SQL
Nonprocedural	PL/SQL	SQL
Procedural	PL/SQL	SQL
Is ANSI-compliant	PL/SQL	SQL

2. In your own words, describe why a procedural language like PL/SQL is needed.

3. List some examples of procedural constructs in PL/SQL.

4. In the following code, identify (circle or highlight) examples of these procedural constructs: variable, conditional control statement, reusable/callable program unit, and an assignment statement.

```
DECLARE
    v_first_name varchar2(40);
    v_last_name varchar2(40);
    v_first_letter varchar2(1);
BEGIN
    SELECT first_name, last_name INTO v_first_name, v_last_name
            FROM students
            WHERE student_id = 105;
    v_first_letter := get_first_letter(v_last_name);
    IF 'N' > 'v_first_letter' THEN
        DBMS_OUTPUT.PUT_LINE('The last name for ' || v_first_name || ' ' || v_last_name || ' is
            between A and M');
    ELSE
        DBMS_OUTPUT.PUT_LINE('The last name for ' || v_first_name || ' ' || v_last_name || ' is
            between N and Z');
    END IF;
END;
```