 



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

Practice Activities

# Vocabulary

Identify the vocabulary word for each definition below:

|  |  |
| --- | --- |
| Procedural constructs | Programming language features such as reusable/callable program units, modular blocks, cursors, constants, variables, assignment statements, conditional control statements, and loops |
| PL/SQL | 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 |

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

Un limbaj procedural ca PL/SQL inlatura limitarile legate de actualizarea unui numar de date in acelasi timp.

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

Variabile, constante, cursor, conditii logice si iteratii.

1. 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;

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