Database Programming with PL/SQL

2-1: Using Variables in PL/SQL

Practice Activities

Vocabulary

|  |  |
| --- | --- |
| variabila | Used for storage and data manipulation of stored values |
| parametru | Values passed to a program by a user or by another program to  customize the program |

Try It / Solve It

1. Fill in the blanks.

A. Variables can be assigned to the output of a subprogram.

B. Variables can be assigned values in the \_declaration\_ section of a PL/SQL block.

C. Variables can be passed as \_parametres\_ to subprograms.

2. Identify valid and invalid variable declaration and initialization:

nu number\_of\_copies

nu printer\_name

nu deliver\_to

nu by\_when

nu PLS\_INTEGER;

da CONSTANT VARCHAR2(10);

da VARCHAR2(10) := Johnson;

da DATE := SYSDATE+1;

aici nu sunt ff sigur, pt ca variabilele cu nume nu au tip, si variabilele cu tip nu au nume

3. Examine the following anonymous block and choose the appropriate statement.

DECLARE

fname VARCHAR2(25);

lname VARCHAR2(25) DEFAULT 'fernandez';

BEGIN

DBMS\_OUTPUT.PUT\_LINE(fname || ' ' || lname);

END;

da A. The block will execute successfully and print ‘ fernandez’.

Nu B. The block will give an error because the fname variable is used without initializing.

Nu C. The block will execute successfully and print ‘null fernandez’.

Nu D. The block will give an error because you cannot use the DEFAULT keyword to initialize a

variable of the VARCHAR2 type.

Nu E. The block will give an error because the FNAME variable is not declared.

4. In Application Express:

A. Create the following function:

CREATE FUNCTION num\_characters (p\_string IN VARCHAR2)

RETURN INTEGER AS

v\_num\_characters INTEGER;

BEGIN

SELECT LENGTH(p\_string) INTO v\_num\_characters

FROM dual;

RETURN v\_num\_characters;

END; gata

B. Create and execute the following anonymous block:

DECLARE

v\_length\_of\_string INTEGER;

BEGIN

v\_length\_of\_string := num\_characters('Oracle Corporation');

DBMS\_OUTPUT.PUT\_LINE(v\_length\_of\_string);

END; gata! Scoate 18

5. Write an anonymous block that uses a country name as input and prints the highest and lowest

elevations for that country. Use the COUNTRIES table. Execute your block three times using

United States of America, French Republic, and Japan.

Nu se poate! Deoarece Countries table nu mai are lowest si highest elevation in noua versiune de DB din apex.