

Database Programming with PL/SQL

4-3: Iterative Control: Basic Loops

**Practice Activities** 

## Vocabulary

Identify the vocabulary word for each definition below:

Basic Loop	Encloses a sequence of statements between the keywords LOOP and END LOOP and must execute at least once.
EXIT	Statement to terminate a loop.

## Try It / Solve It

1. What purpose does a loop serve in PL/SQL?

A loop allows PL/SQL to repeatedly execute a sequence of statements until a termination condition is met.(O bucl permite PL/SQL s execute în mod repetat o secven de instruciuni pân când este îndeplinit o condiie de terminare.)

2. List the types of loops in PL/SQL.

Basic LOOP, FOR LOOP WHILE

3. What statement is used to explicitly end a loop?

**EXIT or EXIT WHEN** 

- 4. Write a PL/SQL block to display the country\_id and country\_name values from the COUNTRIES table for country id whose values range from 1 through 3. Use a basic loop. Increment a variable from 1 through 3. Use an IF statement to test your variable and EXIT the loop after you have displayed the first 3 countries.
- 5. Modify your solution to question 4 above, replacing the IF statement with an EXIT....WHEN statement B.
- 6. Create a MESSAGES table and insert several rows into it.
  - A. To create the messages table.

DROP TABLE messages; CREATE TABLE messages (results NUMBER(2));

-- Excludem 6 i 8 IF i != 6 AND i != 8 THEN **INSERT INTO messages (results)** VALUES (i); **END IF: END LOOP:** 

COMMIT: END:

-- Confirmm inserrile

FOR i IN 1..10 LOOP

**BEGIN** 

- B. Write a PL/SQL block to insert numbers into the MESSAGES table. Insert the numbers 1 through 10, excluding 6 and 8.
- C. Execute a SELECT statement to verify that your PL/SQL block worked.SELECT \* FROM messages;