Database Programming with PL/SQL

4-3: Iterative Control: Basic Loops

Practice Activities

Vocabulary

Identify the vocabulary word for each definition below:

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

Try It / Solve It

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

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

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

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.

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));

   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.