

Database Programming with PL/SQL 4-5:

Iterative Control: Nested Loops Practice

Activities

Vocabulary

No new vocabulary for this lesson

Try It / Solve It

1. Write a PL/SQL block to produce a list of available vehicle license plate numbers. These numbers must be in the following format: NN-MMM, where NN is between 60 and 65, and MMM is between 100 and 110. Use nested FOR loops. The outer loop should choose numbers between 60 and 65. The inner loop should choose numbers between 100 and 110, and concatenate the two numbers together.

BEGIN

FOR i IN 60..65 LOOP

FOR j IN 100..110 LOOP

DBMS_OUTPUT.PUT_LINE(i || ' - ' || j);

END LOOP;

END LOOP;

END;

2. Modify your block from question 1 to calculate the sum of the two numbers on each iteration of the inner loop (for example, 62-107 sums to 169), and exit from the OUTER loop if the sum of the two numbers is greater than 172. Use loop labels. Test your modified code.

DECLARE

counter NUMBER(3);

BEGIN

<<outer_loop>>

FOR i IN 60..65 LOOP

<<inner_loop>>

FOR j IN 100..110 LOOP

counter:= i+j;

DBMS_OUTPUT.PUT_LINE(i || ' - ' || j || ' ' || counter);

EXIT WHEN counter > 172;

END LOOP inner_loop;

END LOOP outer_loop;

END;