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.

Declare

V1 number(2);

v2 number(3);

begin

<<outer>>

for I in range 60..65 LOOP

for j in range 100..110 LOOP

v1:=i;

v2:=j;

DMBS\_OUTPUT.PUT\_LINE(v1||’-’||v2);

end loop;

end loop outer;

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

V1 number(2);

v2 number(3);

begin

<<outer>>

for I in range 60..65 LOOP

for j in range 100..110 LOOP

v1:=i;

v2:=j;

DMBS\_OUTPUT.PUT\_LINE(v1+v2);

exit when v1+v2>172;

end loop;

end loop outer;

end;