

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.
- 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
  v_license_plate VARCHAR2(20); -- Variabil pentru
numrul de înmatriculare
  v sum NUMBER; -- Variabil pentru suma NN + MMM
  <<outer loop>> -- Etichet pentru bucla exterioar
BEGIN
  -- Bucla exterioar pentru NN (60-65)
  FOR nn IN 60..65 LOOP
     -- Bucla interioar pentru MMM (100-110)
    FOR mmm IN 100..110 LOOP
       -- Concateneaz NN i MMM în formatul NN-MMM
       v license plate := nn || '-' || mmm;
       -- Calculeaz suma NN + MMM
       v sum := nn + mmm;
       -- Afieaz numrul de înmatriculare i suma
       DBMS_OUTPUT.PUT_LINE('License Plate: ' ||
v_license_plate || ', Sum: ' || v_sum);
       -- Verific dac suma depete 172
       IF v sum > 172 THEN
         EXIT outer_loop; -- leire din bucla exterioar
       END IF:
    END LOOP:
  END LOOP;
END:
```

```
1.DECLARE
  v_license_plate VARCHAR2(20); -- Variabil
pentru numrul de înmatriculare
BEGIN
  -- Bucla exterioar pentru NN (60-65)
  FOR nn IN 60..65 LOOP
    -- Bucla interioar pentru MMM (100-110)
    FOR mmm IN 100..110 LOOP
       -- Concateneaz NN i MMM în formatul
NN-MMM
      v license plate := nn || '-' || mmm;
      -- Afieaz numrul de înmatriculare
      DBMS OUTPUT.PUT LINE
(v license plate);
    END LOOP;
  END LOOP;
END;
```