

Database Programming with PL/SQL 6-1: User-Defined Records **Practice Activities** Vocabulary

Identify the vocabulary word for each definition below:

record declaration(declaraie de înregistrare)Înregistrare PL/SQL

Declares a record with the same fields as the cursor on which it is based

## Try It / Solve It

1. Copy and execute the following anonymous block. Then modify it to declare and use a single record instead of a scalar variable for each column. Make sure that your code will still work if an extra column is added to the departments table later. Execute your modified block and save your code.

```
DECLARE
         v dept id
                        departments.department id%TYPE;
         v dept name departments.department name%TYPE;
                        departments.manager id%TYPE;
         v mgr id
         v loc id
                        departments.location id%TYPE;
        BEGIN
         SELECT department id, department name, manager id, location id
          INTO v dept id, v dept name, v mgr id, v loc id
          FROM departments
          WHERE department id = 80;
         DBMS OUTPUT.PUT LINE(v_dept_id || ' ' || v_dept_name
                 || ' ' || v_mgr_id || ' ' || v_loc_id);
        EXCEPTION
         WHEN NO DATA FOUND THEN
          DBMS_OUTPUT_LINE('This department does not exist'); Codul declar un tip de date personalizat (record) numit rec_dep, care
DECLAREND:
```

TYPE rec dep IS RECORD(

id departments.department id%TYPE,

name departments.department name%TYPE,

manager\_id departments.manager\_id%TYPE,

location\_id departments.location\_id%TYPE); v rec dep rec dep;

include câmpuri pentru department\_id, department\_name, manager\_id i location\_id din tabelul departments. Variabila v\_rec\_dep este creat pe baza acestui tip.

În cadrul blocului BEGIN, o interogare SQL selecteaz valorile coloanelor pentru un departament specific (cu department id = 80) i le stocheaz în variabila v rec dep. Valorile sunt apoi afiate folosind DBMS\_OUTPUT.PUT\_LINE.

Dac interogarea nu returneaz date (departamentul nu exist), este gestionat excepia NO\_DATA\_FOUND i este afiat un mesaj corespunztor.

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