Practice PL/SQL 5-1

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Contents

1 Vocabulary

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

2. TYPE a composite data type consisting of a group of related data items stored as fields, each with its own name and data type

2 Try/Solve It

1. Excecute following code and save it.

```
DECLARE
    v_dept_id DEPARTMENTS.DEPARTMENT_ID%TYPE;
    v_dept_name DEPARTMENTS.DEPARTMENT_NAME%TYPE;
    v_mgr_id DEPARTMENTS.MANAGER_ID%TYPE;
    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.PUT_LINE('Department does not exist');
END;
```

```
[2023-11-15 12:20:34] completed in 554 ms
C##2030406> DECLARE
              v_dept_id DEPARTMENTS.DEPARTMENT_ID%TYPE;
              v_dept_name DEPARTMENTS.DEPARTMENT_NAME%TYPE;
              v_mgr_id DEPARTMENTS.MANAGER_ID%TYPE;
              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.PUT_LINE('Department does not exist');
          END;
[2023-11-15 12:20:41] completed in 96 ms
80 Sales 149 2500
```

2. Explain the advantage of using `%ROWTYPE` to declare a record structure.

   You don't need to specify the type of the table explicitly.