12-2: Improving PL/SQL Performance

Vocabulary

1.NOCOPY

2.FORALL

3.BULK COLLECT Clause

4.DETERMINISTIC Clause

5.RETURNING Clause

6.Bulk Binding

Try It / Solve It

1.

Call Duration (secs)

Just IN OUT: .16

With NOCOPY: 0

2.

25000

17000

6000

26400

18700

6600

creste salariul cu 10%

3.

CREATE OR REPLACE PROCEDURE get_dep IS

```
TYPE t_dep IS TABLE OF departments%ROWTYPE INDEX BY BINARY_INTEGER;

v_deptab t_dep;

BEGIN

SELECT* BULK COLLECT INTO v_deptab FROM departments;

FOR i IN v_deptab.FIRST..v_deptab.LAST LOOP

IF v_deptab.EXISTS(i) THEN

DBMS_OUTPUT.PUT_LINE(v_deptab(i).location_id);

END IF;

END LOOP;

END get_dep;
```

4.

```
CREATE OR REPLACE PROCEDURE delete_row IS

TYPE emp_temp IS TABLE OF employees%ROWTYPE INDEX BY BINARY_INTEGER;

v_emptab emp_temp;

BEGIN

SELECT* BULK COLLECT INTO v_emptab FROM employees;

FOR i IN v_emptab.FIRST..v_emptab.LAST LOOP

DELETE FROM emp_temp

WHERE DEPARTMENT_ID=20

RETURNING department_id INTO emp_temp;

END LOOP;

END delete_row;
```