

```
SET SERVEROUTPUT ON;
```

```
--1
CREATE OR REPLACE FUNCTION nbemp(numDept emp.deptno%TYPE)
RETURN NUMBER
IS
    v_nb NUMBER;
BEGIN
    SELECT COUNT(*) INTO v_nb FROM emp WHERE deptno = numDept;
    RETURN v_nb;
EXCEPTION
    WHEN NO_DATA_FOUND THEN RAISE_APPLICATION_ERROR(-20002, 'This department does not exist',
        TRUE); /*bof*/
END;
/
```

```
--2
CREATE OR REPLACE FUNCTION deptno_by_dname(deptName dept.dname%TYPE)
RETURN dept.deptno%TYPE
IS
    v_no dept.deptno%TYPE;
BEGIN
    SELECT deptno INTO v_no FROM dept WHERE dname = deptName;
    RETURN v_no;
EXCEPTION
    WHEN NO_DATA_FOUND THEN RAISE_APPLICATION_ERROR(-20002, 'This department does not exist',
        TRUE);
END;
/
```

```
--3
CREATE OR REPLACE FUNCTION nbemp_by_dname(deptName dept.dname%TYPE)
RETURN NUMBER
IS
    v_nb NUMBER;
BEGIN
    SELECT COUNT(*) INTO v_nb FROM emp JOIN dept USING (deptno)
    WHERE dname = deptName;
    RETURN v_nb;
EXCEPTION
    WHEN NO_DATA_FOUND THEN RAISE_APPLICATION_ERROR(-20002, 'This department does not exist',
        TRUE); /*bof*/
END;
/
```

```
--4
CREATE OR REPLACE PROCEDURE augmentation(numEmp IN emp.empno%TYPE, percent IN NUMBER) IS
BEGIN
    UPDATE emp SET sal = (1+(percent)/100)*sal
    WHERE empno = numEmp;
    COMMIT;
END;
/
```

```
DECLARE
    v_no NUMBER := 7369;
    v_sal emp.sal%TYPE;
BEGIN
    DBMS_OUTPUT.PUT_LINE('-----Avant modif-----');
    SELECT sal INTO v_sal FROM emp WHERE empno = v_no;
    DBMS_OUTPUT.PUT_LINE('Salaire de '||v_no||' : '||v_sal);

    DBMS_OUTPUT.PUT_LINE('-----Après modif (+10%) -----');
    augmentation(v_no, 10);
    SELECT sal INTO v_sal FROM emp WHERE empno = v_no;
    DBMS_OUTPUT.PUT_LINE('Salaire de '||v_no||' : '||v_sal);
END;
/
```

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--5
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```
CREATE OR REPLACE PROCEDURE nom_minuscules(v_emp IN OUT emp%ROWTYPE)
IS
BEGIN
    v_emp.ename := LOWER(v_emp.ename);
    COMMIT;
END;
/

DECLARE
    CURSOR c_emp IS
        SELECT * FROM emp;
BEGIN
    FOR i IN c_emp LOOP
        nom_minuscules(i);
        DBMS_OUTPUT.PUT_LINE(i.empno || ' - ' || i.ename);
    END LOOP;
END;
/
```