Explicación Cursores

Algunos ejemplos que vemos en clase:

```
drop table prueba;
create table prueba (
        DNI number(8),
        Nombre Varchar2(20));
insert into prueba values (12345671,'Pepi');
insert into prueba values (12345672,'Pep');
insert into prueba values (12345673,'Pe');
insert into prueba values (12345674,'P');
insert into prueba values (12345675,'juan');
insert into prueba values (12345676,'joan');
insert into prueba values (12345677,'jaime');
--select * from prueba;


set serveroutput on;
declare
varDNI prueba.DNI%type;
varNombre prueba.Nombre%type;
cursor cur1 is
        select DNI,Nombre from prueba where nombre like'P%';  --Declaracion del Cursor
begin
        open cur1;                                              --Apertura del Cursor
        fetch cur1 into varDNI,varNombre;
        while cur1%FOUND loop
        dbms_output.put_line(varDNI||' '||varNombre);
        fetch cur1 into varDNI,varNombre; --Recoger
        end loop;
        close cur1;                                     --Cerrar Cursor
end;
/

--Cursores con bucle While
declare

cursor cur1 is
        select * from prueba;           --Declaracion del Cursor
var_reg cur1%rowtype;
begin
        open cur1;                                              --Apertura del Cursor
        fetch cur1 into varreg;
        while cur1%FOUND loop
        dbms_output.put_line(varreg.DNI||' '||varreg.Nombre);
        fetch cur1 into varreg;                 --Recoger
        end loop;
        close cur1;                                     --Cerrar Cursor
end;
/

--Cursores con bucle loop
declare
varreg prueba%rowtype;
cursor cur1 is
        select * from prueba;           --Declaracion del Cursor
```

```
begin
        open cur1;                                                      --Apertura del Cursor
        loop
        fetch cur1 into varreg;                         --Recoger
        exit when cur1%notfound;
        dbms_output.put_line(varreg.DNI||' '||varreg.Nombre);
        end loop;
        close cur1;                                             --Cerrar Cursor
end;
/

--Cursores con bucle For
declare
cursor cur1 is
          select * from prueba;                 --Declaracion del Cursor
begin
        for varreg in cur1 loop
    dbms_output.put_line(varreg.DNI||' '||varreg.Nombre);
        end loop;
end;
/

declare
cursor c1 is
          select * from jobs where min_salary>30000;                    --Declaracion del Cursor
begin
        for r1 in c1 loop

       dbms_output.put_line(r1.job_title||' '||r1.max_salary);

        end loop;
end;
/



-- Cursores con variables de acoplamiento

CREATE OR REPLACE PROCEDURE ver_emple_en_dept (dep number) AS
        v_dept NUMBER(2);
        CURSOR c1 IS SELECT last_name FROM employees WHERE department_id = v_dept;
        v_apellido VARCHAR2(10);
BEGIN
        v_dept := dep;
        OPEN c1;
        FETCH c1 INTO v_apellido;
        WHILE c1%FOUND LOOP
        DBMS_OUTPUT.PUT_LINE(v_apellido);
        FETCH c1 INTO v_apellido;
        END LOOP;
        CLOSE c1;
END;

exec ver_emple_en_dept (40);


CREATE OR REPLACE PROCEDURE ver_emple_en_dept (dep number) AS
        CURSOR c1 IS SELECT last_name FROM employees WHERE department_id = dep;
BEGIN
        for r1 in c1 loop
```

```
                DBMS_OUTPUT.PUT_LINE(r1.last_name);
        END LOOP;
END;


--Cursores con parametros


CREATE OR REPLACE PROCEDURE ver_emple_por_dept  AS
        CURSOR c1 IS SELECT * FROM departments;
        CURSOR c2(dpto number) IS SELECT * FROM employees where department_id = dpto;
BEGIN
        for r1 in c1 loop
                DBMS_OUTPUT.PUT_LINE(r1.department_id);
                for r2 in c2(r1.department_id) loop
       DBMS_OUTPUT.PUT_LINE(r2.last_name);
                end loop;
        END LOOP;
END;


CREATE OR REPLACE PROCEDURE subir_salario_dpto(numero NUMBER, pct_subida
NUMBER,maximo number) AS
        CURSOR c1 IS SELECT * FROM employees WHERE department_id = numero FOR
UPDATE;
BEGIN
        for r1 in c1 loop
                if (r1.salary*pct_subida/100 <= maximo) then
                        UPDATE employees SET salary = salary+salary*pct_subida/100 WHERE
CURRENT OF c1; -- (al actual)
                end if;
        END LOOP;
END subir_salario_dpto;

exec subir_salario_dpto(60,10,500);


/*
Explicaciones alternativas al tema y videos en:
https://elbauldelprogramador.com/plsql-cursores/
*/
```