set serveroutput on; --> activar salida por script

/\* ejemplo 1\*/

select first\_name,last\_name,salary,hire\_date

from employees where EXTRACT(YEAR FROM hire\_date)=2005;

create table empleados(

first\_name varchar2(45) not null,

last\_name varchar2(45) not null,

salary number

);

select \* from empleados;

truncate table empleados;

------------------------------------------------------------------------

variable anno number;

execute :anno:=2007;

variable bono number;

execute :bono:=500;

declare

v\_contador number:=0;

v\_total\_sueldos employees.salary%type:=0;

v\_promedio number;

begin

execute IMMEDIATE 'truncate table empleados';

-- cursor implicito

select avg(salary) into v\_promedio from employees;

-- crear un cursor explicito

for reg in (select first\_name,last\_name,salary

from employees where EXTRACT(YEAR FROM hire\_date)=:anno)

loop

dbms\_output.put\_line(reg.first\_name);

dbms\_output.put\_line(reg.last\_name);

dbms\_output.put\_line(reg.salary);

if reg.salary<v\_promedio then

dbms\_output.put\_line('Bono: ' || :bono);

dbms\_output.put\_line('Nuevo Salario:' || (reg.salary+:bono));

end if;

dbms\_output.put\_line('-----------------');

v\_contador:=v\_contador+1;

v\_total\_sueldos:=v\_total\_sueldos+reg.salary;

insert into empleados values(reg.first\_name, reg.last\_name,reg.salary);

end loop;

dbms\_output.put\_line('Cantidad de Empleados:' || v\_contador);

dbms\_output.put\_line('Total Sueldos:' || v\_total\_sueldos);

-- cursor implicito

select sum(salary) into v\_total\_sueldos

from employees;

dbms\_output.put\_line('Total 2:' || v\_total\_sueldos);

end;

----------------------------------------------------------------------------

-- control de transacciones

create table personas as select \* from employees;

select \* from personas;

declare

begin

delete from personas where salary<4000;

commit;

update personas set first\_name=first\_name || 'x';

savepoint actualizar;

update personas set salary=salary\*1.5;

ROLLBACK TO actualizar;

end;

ROLLBACK;

-----------------------------------------------------------------

-- estructuras de control

select first\_name,last\_name,salary,

case

when salary>=10000 then 'A'

else 'B'

end as clase

from employees;

declare

v\_bono number;

v\_anti number;

begin

for x in (select first\_name,last\_name,salary,

case

when salary>=10000 then 'A'

else 'B'

end as clase from employees)

loop

v\_bono:= case x.clase

when 'B' then 500

when 'A' then 1

else 0

end ;

v\_anti:= case

when x.salary>1000 then 10

when x.salary<500 then 500

else 100

end;

if not (x.clase='A' and length(x.first\_name)<10) then

v\_bono:=1;

elsif x.clase='B' then

v\_bono:=500;

else

v\_bono:=0;

end if;

dbms\_output.put\_line('Nombre:' || x.first\_name || ' Bono:' || v\_bono || ' Clase:' || x.clase);

end loop;

end;

------------------------------------------------------------------

-- ciclos

-------------- loop basico

declare

v\_contador number:=0;

begin

loop

dbms\_output.put\_line('hola');

exit when v\_contador=10;

v\_contador:=v\_contador+1;

end loop;

end;

-------------- for

declare

begin

for x in 1..10

loop

dbms\_output.put\_line('hola ' || x);

end loop;

end;

---------------- for cursor explicito

declare

begin

for x in (select first\_name from employees)

loop

dbms\_output.put\_line('hola ' || x.first\_name);

end loop;

end;

----------------- while

declare

v\_contador number:=0;

begin

while v\_contador<=10

loop

dbms\_output.put\_line('hola ' || v\_contador);

v\_contador:=v\_contador+1;

end loop;

end;