Bases de données

TP 3

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--Question 1

set serveroutput on;

declare

n number;

moy number;

maj number;

sal number;

n\_sal number;

begin

n := &n;

select avg(sal) into moy from emp group by job having job = (select job from emp where empno = n);

dbms\_output.put\_line(moy);

select sal\*1.1 into maj from emp where empno = n;

select sal into sal from emp where empno = n;

if sal<moy

then n\_sal := moy;

else n\_sal := maj;

end if;

update emp set sal = n\_sal where empno = n;

end;

--Question 2

set serveroutput on;

declare

n number;

fact number := 1;

begin

n := &n;

for i in 1..n

loop fact := fact\*i;

end loop;

dbms\_output.put\_line('fact('||n||') = '||fact);

end;

--Question 3

--Solution alternative

set serveroutput on;

declare

n number(10);

begin

n := &n;

dbms\_output.put\_line('col1 col2');

for i in 1..10

loop dbms\_output.put\_line(i||' '||i\*n);

end loop;

end;

--Solution avec le tableau

set serveroutput on;

declare

type nom\_type is varray(10) of number(3);

col1 nom\_type := nom\_type(0,0,0,0,0,0,0,0,0,0);

col2 nom\_type := nom\_type(0,0,0,0,0,0,0,0,0,0);

multip integer;

begin

multip := &multip;

for i in 1..10 loop

col1(i) := i;

col2(i) := i\*multip;

DBMS\_OUTPUT.PUT\_LINE(col1(i)||' \* '||multip||' = '||col2(i));

end loop;

end;

--Question 4

alter table dept add budget number(10,2);

set serveroutput on;

declare

cursor d1 is select deptno from dept;

begin

for n in d1

loop update dept set budget = (select sum(sal) from emp group by deptno having deptno = n.deptno) where deptno = n.deptno;

end loop;

end;

set serveroutput on;

declare

cursor e1 is select empno from emp where deptno in (select deptno from dept where loc in ('DALLAS', 'NEW YORK'));

begin

for n in e1

loop update emp set sal = 1.1\*sal where empno = n.empno;

end loop;

end;

set serveroutput on;

declare

cursor s1 is select sal from emp order by sal desc;

n number;

cpt number := 0;

begin

n := &n;

for i in s1

loop

exit when cpt = n;

dbms\_output.put\_line(i.sal);

cpt := cpt + 1;

end loop;

end;