**TEMA 4**

**Ex 9**

create or replace type subordonati as varray(30) of number(3);

create table manageri (

id\_manager number(10),

nume varchar2(30),

lista subordonati);

declare

v\_sub subordonati:= subordonati();

v\_lista manageri.lista%type;

begin

for staff\_rec in (select id\_staff from staff where id\_echipa = 5) loop

v\_sub.extend;

v\_sub(v\_sub.count) := staff\_rec.id\_staff;

end loop;

insert into manageri values (1,'Jacques',v\_sub);

v\_sub := subordonati();

for staff\_rec in (select id\_staff from staff where id\_echipa = 7) loop

v\_sub.extend;

v\_sub(v\_sub.count) := staff\_rec.id\_staff;

end loop;

insert into manageri values (2,'Gulie',v\_sub);

v\_sub := subordonati();

for staff\_rec in (select id\_staff from staff where id\_echipa = 8) loop

v\_sub.extend;

v\_sub(v\_sub.count) := staff\_rec.id\_staff;

end loop;

insert into manageri values (3,'Dan',v\_sub);

select lista

into v\_lista

from manageri

where id\_manager=1;

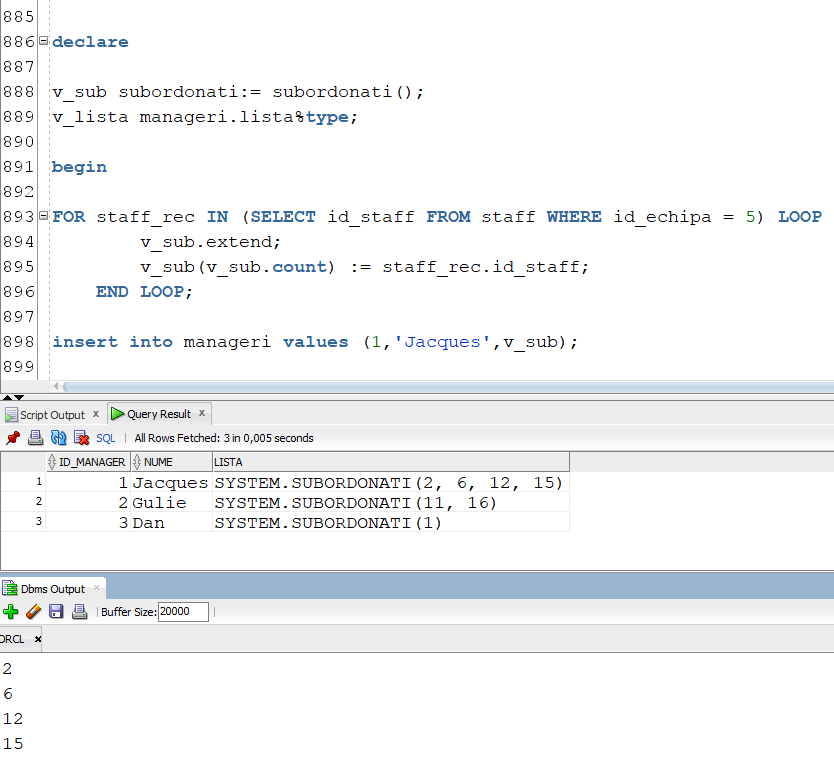
for j in v\_lista.first..v\_lista.last loop

dbms\_output.put\_line (v\_lista(j));

end loop;

end;

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**Ex 10**

create table staff\_test as

select id\_staff, nume\_staff

from staff

where rownum <= 2;

create or replace type tip\_telefon is table of varchar2(12);

alter table staff\_test

add (telefon tip\_telefon)

nested table telefon store as tabel\_telefon;

insert into staff\_test values (3, 'Adi',tip\_telefon('0721XXX', '0239XXX'));

insert into staff\_test values (4, 'Mihai',tip\_telefon('0727XXX', '0319XXX'));

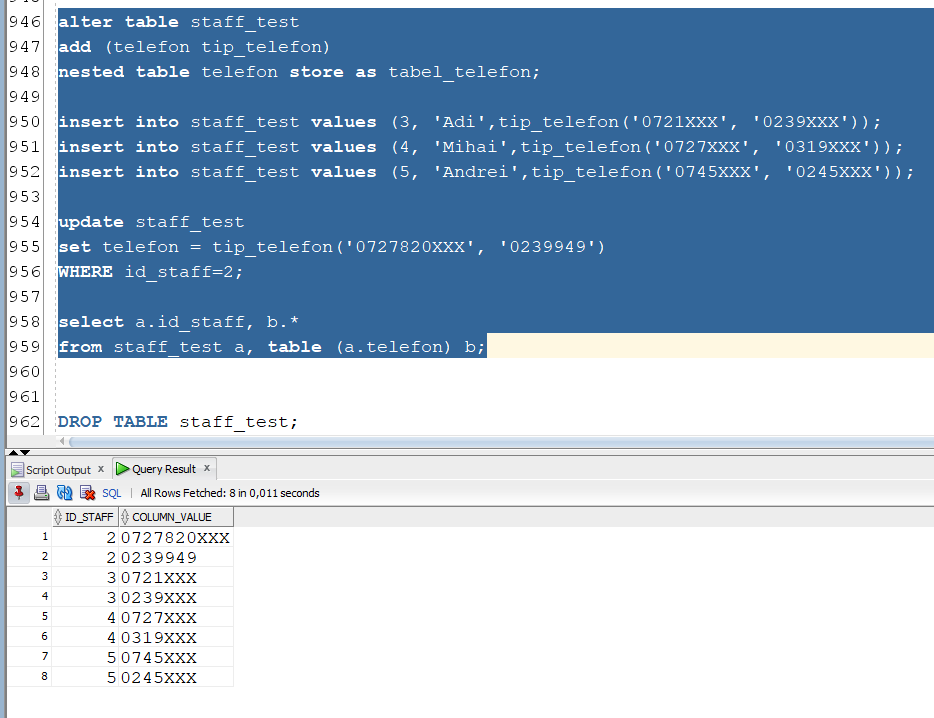
insert into staff\_test values (5, 'Andrei',tip\_telefon('0745XXX', '0245XXX'));

update staff\_test

set telefon = tip\_telefon('0727820XXX', '0239949')

where id\_staff=2;

select a.id\_staff, b.\*

****from staff\_test a, table (a.telefon) b;