**Tema3&4**

1)

select l.city as "Oras\_PAM", count(e.employee\_id) as "Nr\_Angajati\_PAM"

from employees e, departments d, locations l

where e.department\_id (+) = d.department\_id and d.location\_id (+) = l.location\_id

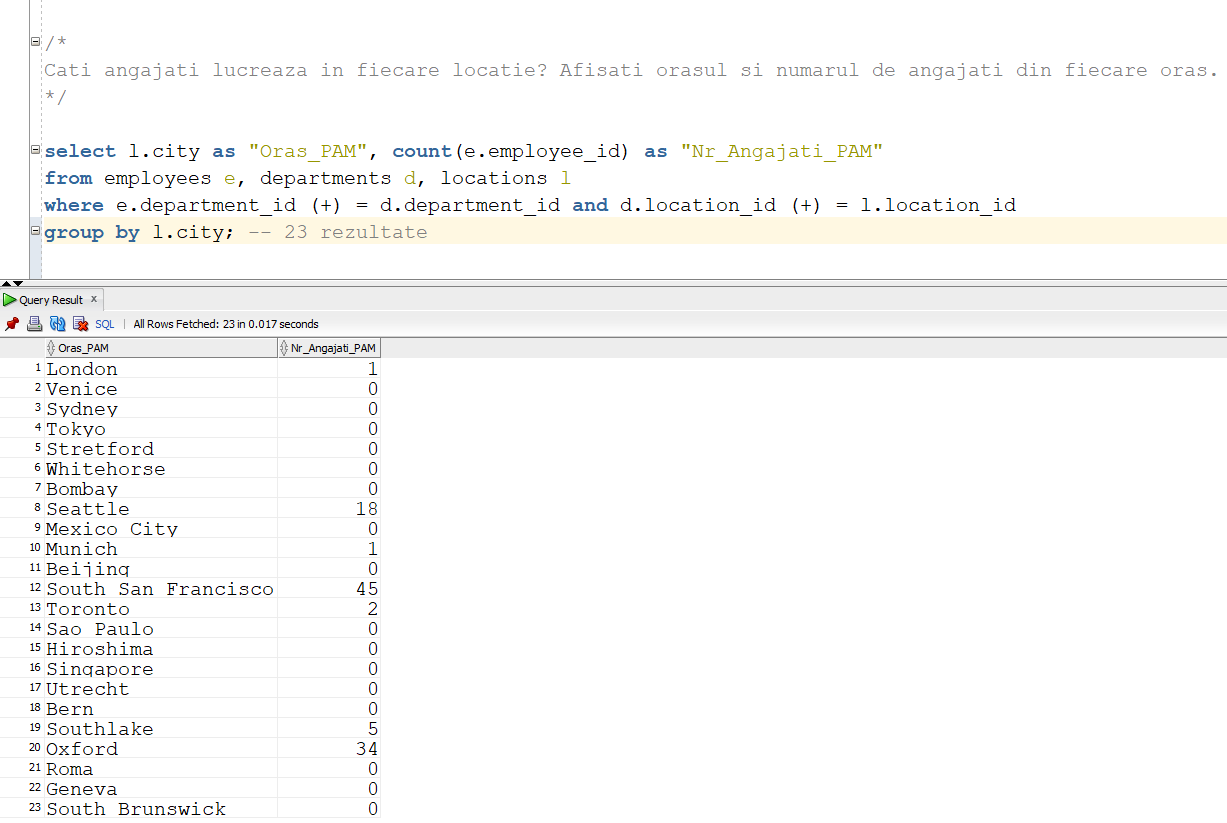
group by l.city; -- 23 rezultate

-- Ca sa afisez orasul si numarul de angajati din fiecare e nevoie sa fac join intre employees,

-- departments si locations si ca sa luam si locatiile in care nu lucreaza niciun angajat facem left join

-- intre ele. Pentru a afla numarul de anjagati folosim functia count si vom imparti pe orase

-- folosind group by.



2)

select l.location\_id "Locatii\_PAM", nvl(max(e.salary), 0) "Salariu\_maxim\_PAM"

from employees e, departments d, locations l

where e.department\_id (+) = d.department\_id and d.location\_id (+) = l.location\_id

group by l.location\_id; -- 23 rezultate

-- Pentru a afla salariul maxim din fiecare locatie trebuie mai intai sa

-- grupam dupa locatie toti angajatii (folosind group by) si apoi

-- pentru fiecare grup sa selectam salariul maxim (functia max pe campul salary).

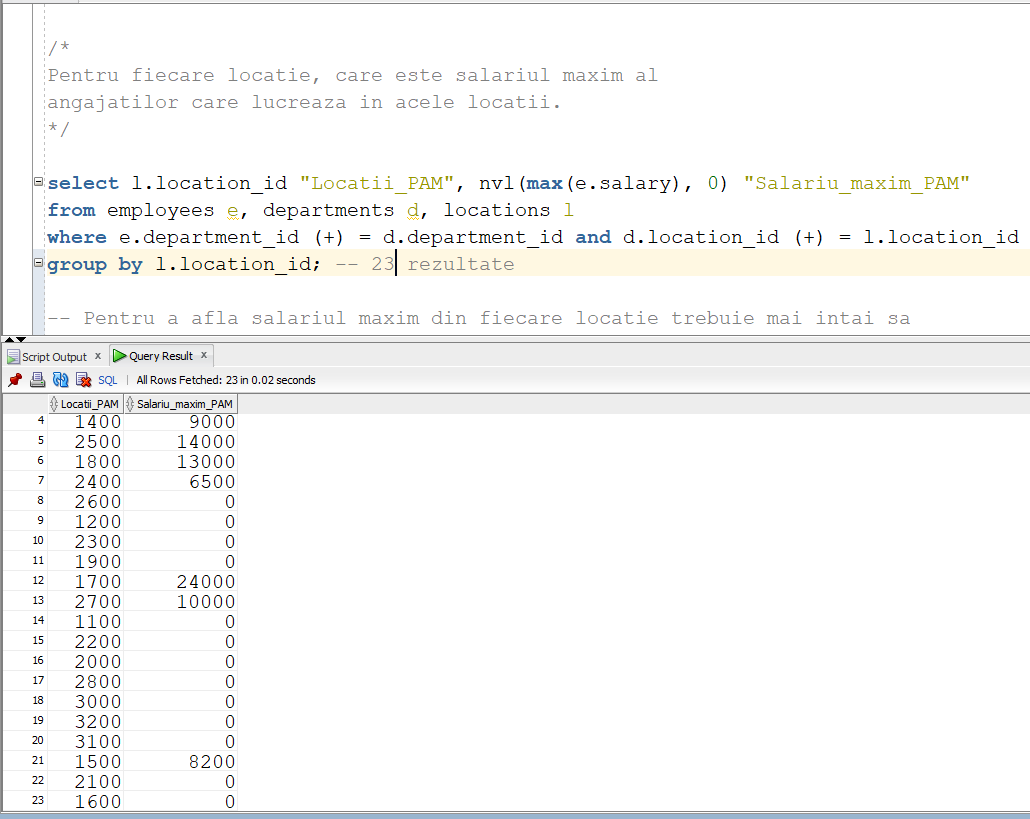
-- Cum aceste informatii se afla in tabelele locations si employees,

-- iar legatura dintre ele se face prin tabela departments e necesar

-- un join intre cele 3 tabele folosind id-urile de departament si locatie.

-- Ca sa afisam si salariul pentru locatiile in care nu lucreaza nimei (=0)

-- folosim left join si functia nvl la salariul maxim.



3)

with salariu\_maxim\_locatie as

(select l.location\_id as location, nvl(max(e.salary), 0) as max\_salary

from employees e, departments d, locations l

where e.department\_id (+) = d.department\_id and d.location\_id (+) = l.location\_id

group by l.location\_id

)

select l.location\_id "Locatii\_PAM", e.last\_name "Nume\_Angajat\_Sal\_Max\_PAM"

from employees e , departments d, locations l, salariu\_maxim\_locatie s

where e.department\_id = d.department\_id and d.location\_id = l.location\_id

and l.location\_id = s.location and e.salary = s.max\_salary; -- 7 rezultate

-- Pentru a rezolva cerinta am folosit cererea de la ex anterior pe care

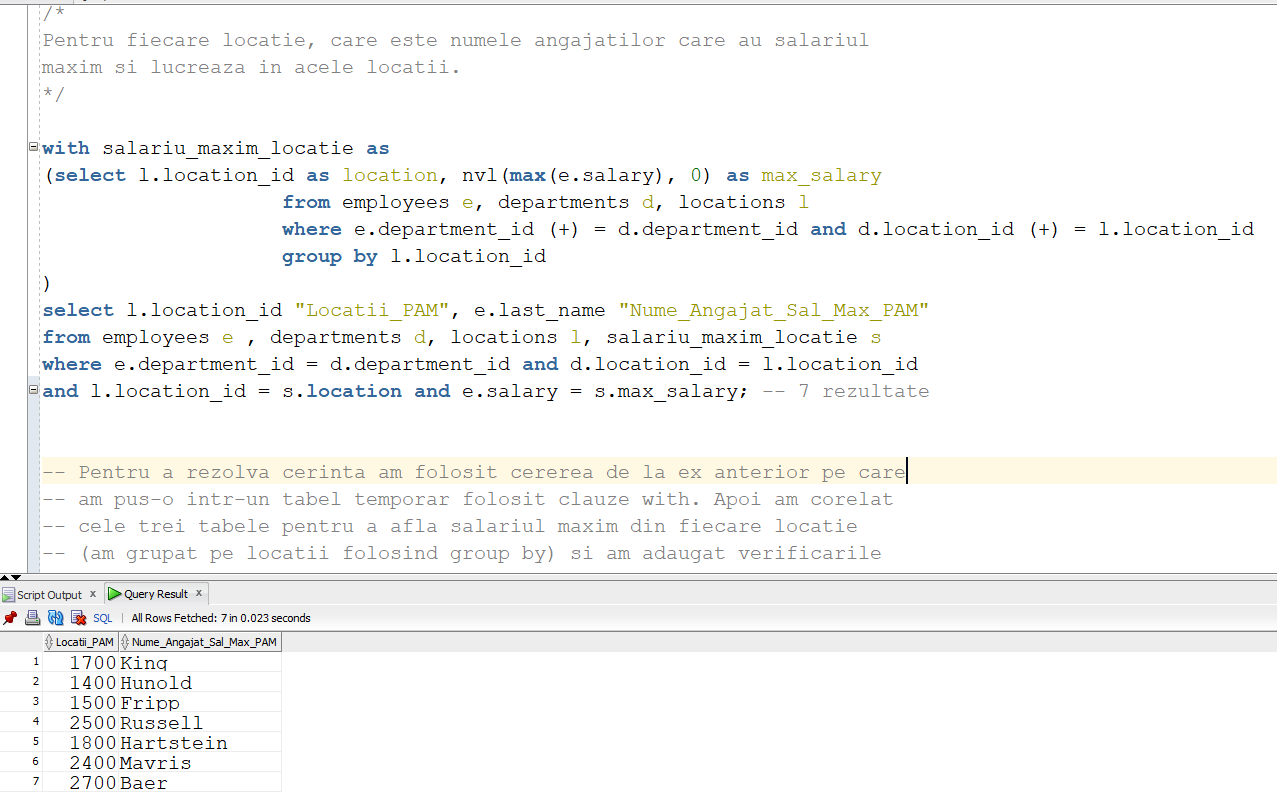
-- am pus-o intr-un tabel temporar folosind clauze with. Apoi am corelat

-- cele trei tabele pentru a afla salariul maxim din fiecare locatie

-- (am grupat pe locatii folosind group by) si am adaugat verificarile

-- legate de salariu maxim si locatie pentru a face legatura cu tabelul

-- temporar.



4)

a)

select distinct d.department\_id "Departamente\_PAM"

from employees e, departments d

where e.department\_id = d.department\_id and lower(e.first\_name) like '%er%';

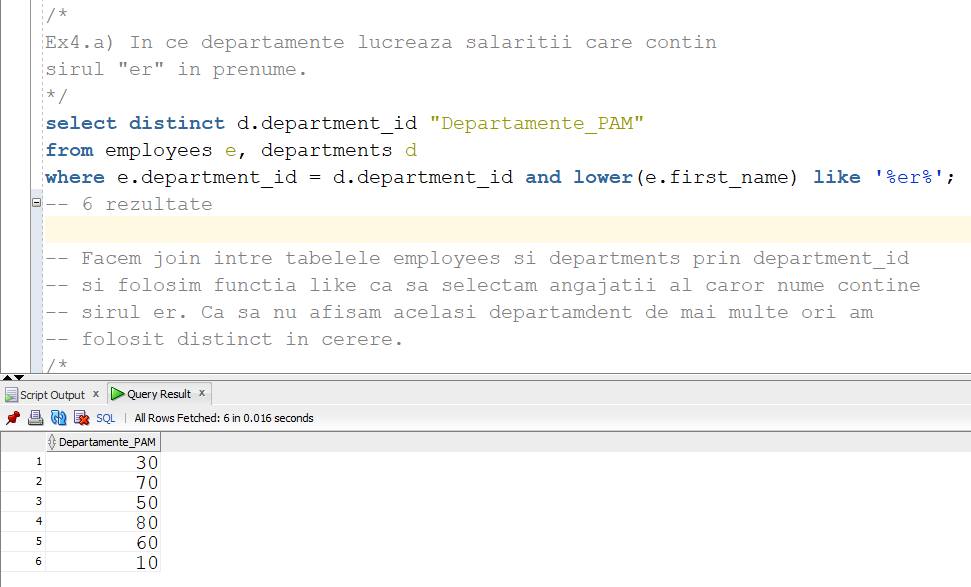
-- 6 rezultate

-- Facem join intre tabelele employees si departments prin department\_id

-- si folosim functia like ca sa selectam angajatii al caror nume contine

-- sirul er. Ca sa nu afisam acelasi departamdent de mai multe ori am

-- folosit distinct in cerere.



b)

select d.department\_id "Departamente\_PAM", max(e.salary) as "Salariu\_Maxim\_PAM"

from employees e, departments d

where e.department\_id = d.department\_id and e.department\_id in

(

select distinct d.department\_id "Departamente\_PAM"

from employees e, departments d

where e.department\_id = d.department\_id and lower(e.first\_name) like '%er%'

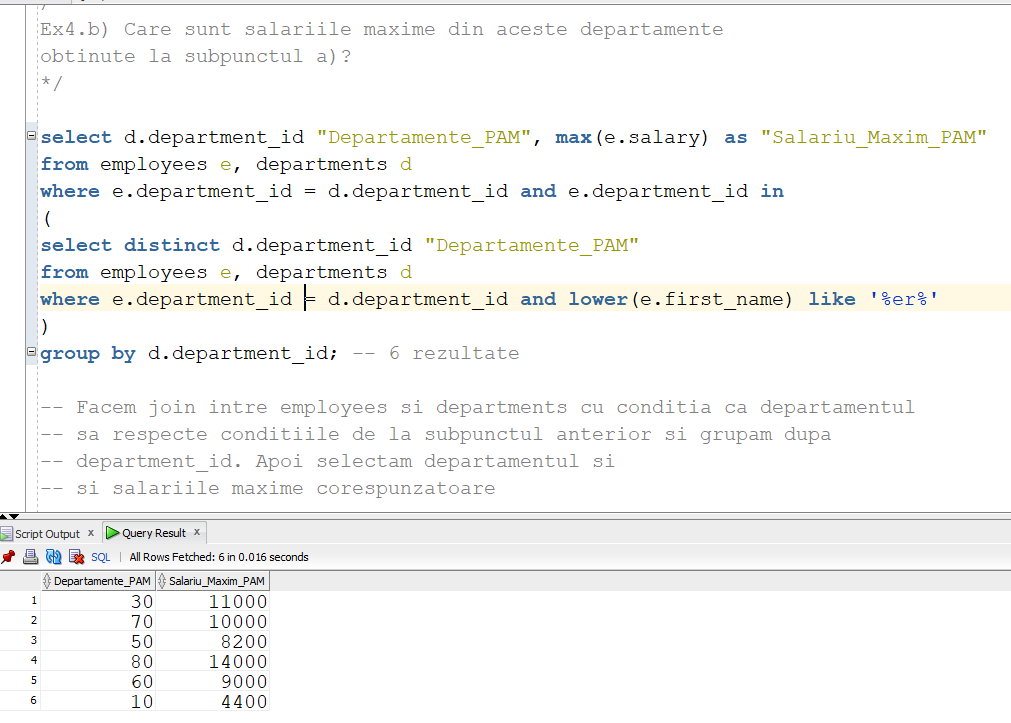
)

group by d.department\_id; -- 6 rezultate

-- Facem join intre employees si departments cu conditia ca departamentul

-- sa respecte conditiile de la subpunctul anterior si grupam dupa

-- department\_id. Apoi selectam departamentul si

-- si salariile maxime corespunzatoare

c)

select distinct d.department\_id "Departamente\_PAM"

from employees e, departments d

where e.department\_id = d.department\_id and e.salary in

(

select max(e.salary) as "Salariu\_Maxim\_PAM"

from employees e, departments d

where e.department\_id = d.department\_id and e.department\_id in (select distinct d.department\_id "Departamente\_PAM"

from departments d, employees e

where e.department\_id = d.department\_id

and lower(e.first\_name) like '%er%')

group by d.department\_id

);

--7 rez

-- Am facut join intre employees su departments si am

-- folosit cererea de la subpunctul anterior ca sa

-- selectam angajatii care au salariul egal cu

-- cel maxim din departamenul corespunzatorau salariul egal cu

-- cel maxim din departamenul corespunzator

