

Tema Curs 7 BD

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1

```
A = SELECT(Proprietate, chirie > 1000, id_filiala = 15)
B = PROJECT(A, id#)
V = PROJECT(Vizioneaza, id_chirias, id_proprietate)
C = DIVIDE(V, B)
R1= SELECT(Chirias, id# IN C)
R = PROJECT(R1, nume, prenume)
```

2

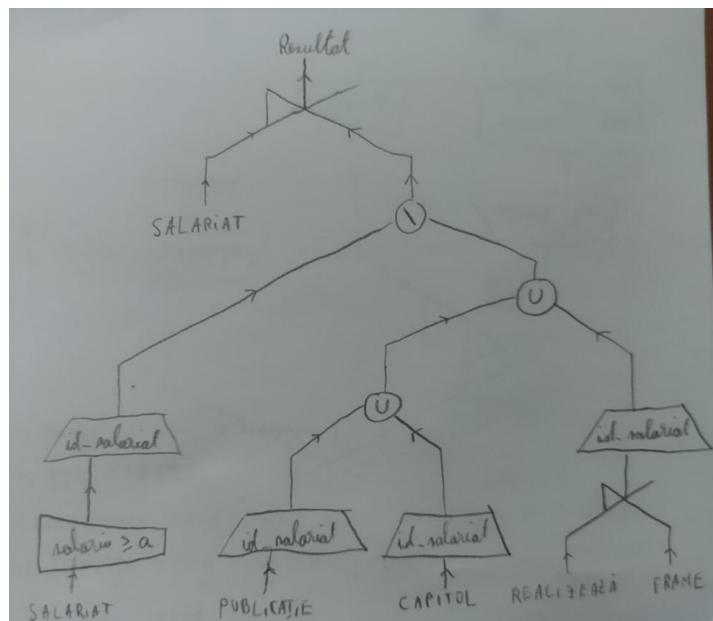


Figure 1: Arbore algebric optimizat

```
C = SELECT(salariat, salariu > a)
A1= PROJECT(publicatie, id_salariat)
A2= PROJECT(capitol, id_salariat)
A3= PROJECT(SEMIJOIN(realizeaza, frame), id_salariat)
P1= UNION(A1, A2)
P = UNION(P1, A3)
D = DIFFERENCE(C, P)
R = SEMI-JOIN(C, D)
```

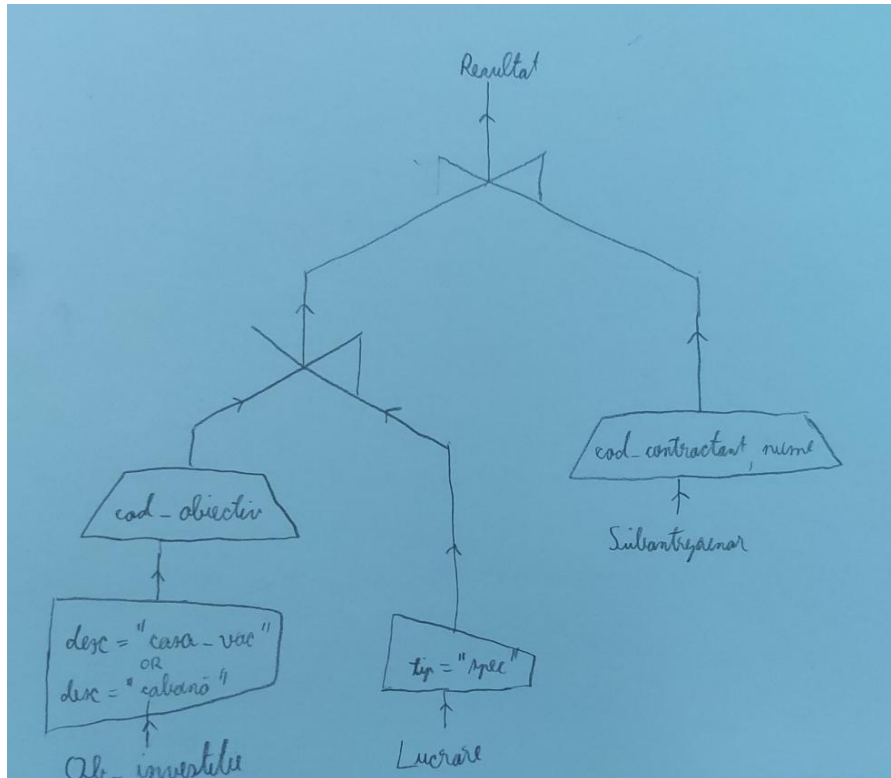


Figure 2: Arbore algebric optimizat

```

C1= SELECT(Ob_investitie, desc="casa_vad" OR desc="cabana")
C = PROJECT(C1, cod_obiectiv)
L = SELECT(Lucrare, tip="spec")
J = SEMIJOIN(L, C)
S = PROJECT(Subantreprenor, cod_contractant, nume)
R = SEMIJOIN(S, J)

```

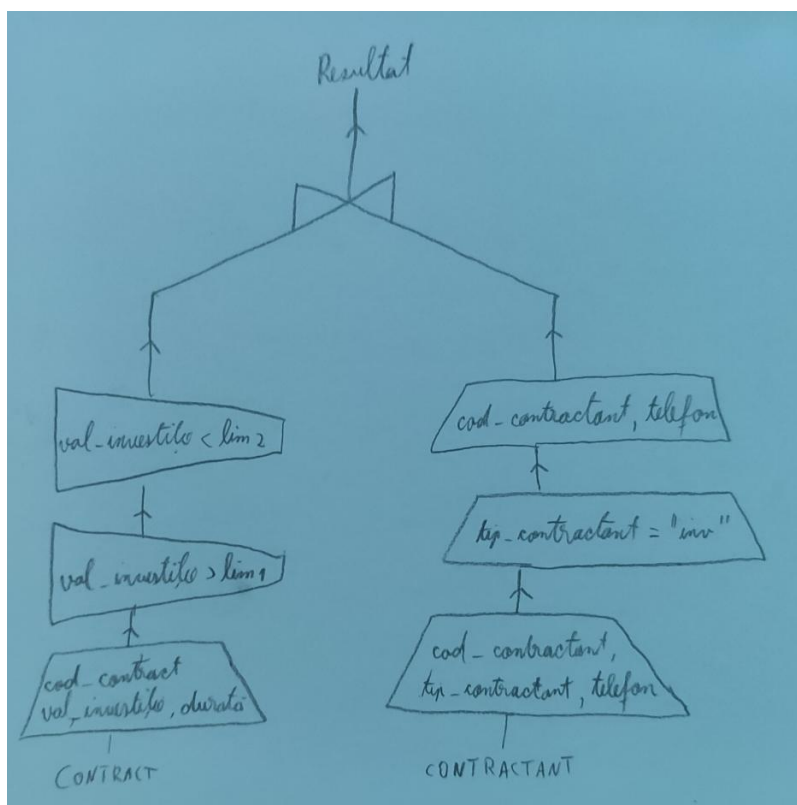


Figure 3: Ex 4 - Arbore Neoptimizat

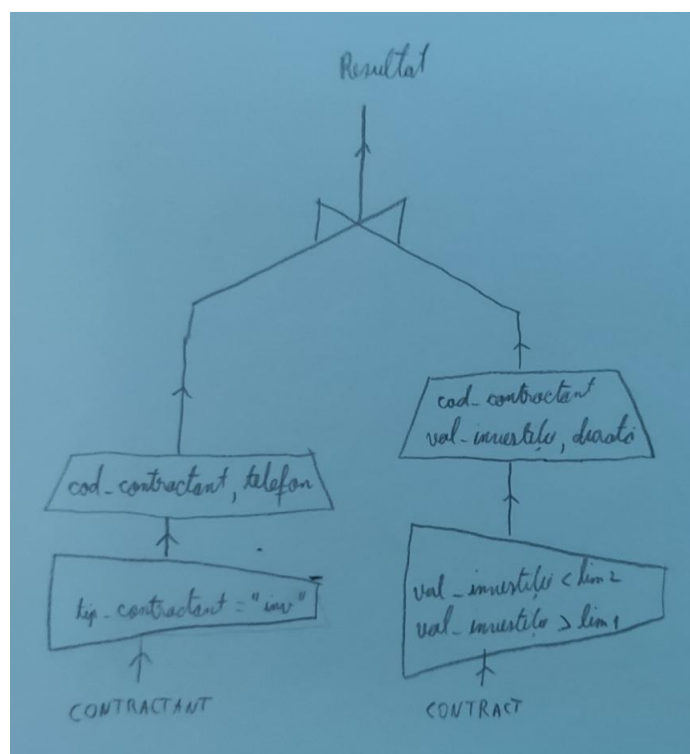


Figure 4: Ex 4 - Arbore Optimizat

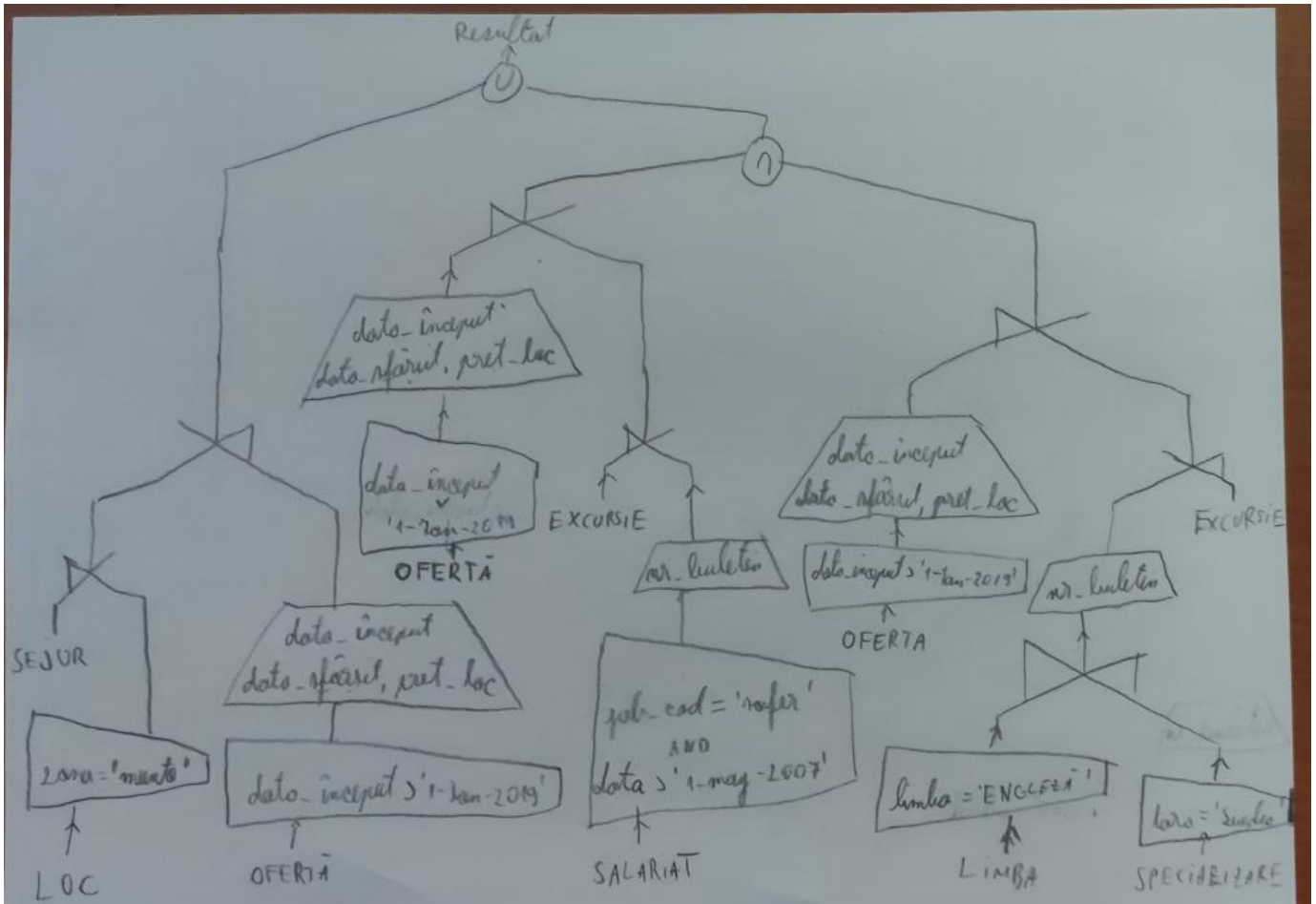


Figure 5: Ex 5 - Arbore Optimizat