

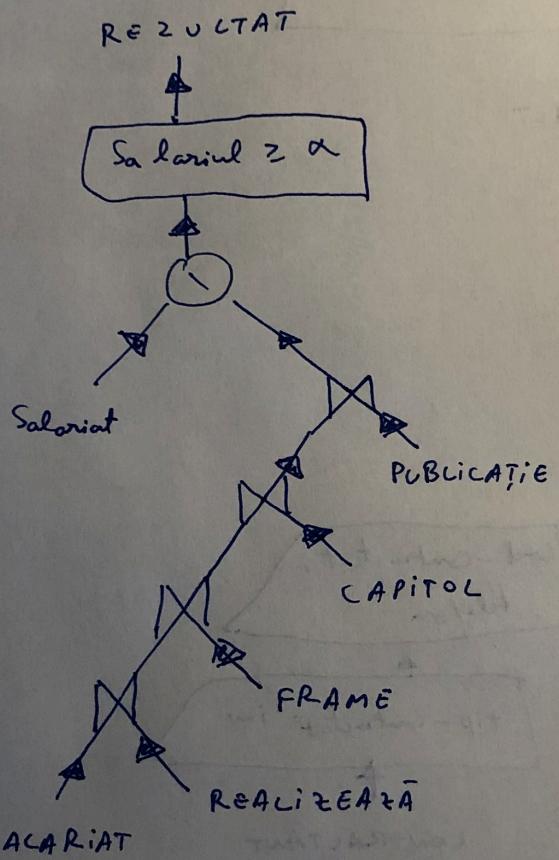
1. $R = \text{project}(\text{CHIRIAS}, \text{name})$

$S = \text{join}(R, \text{VIZIUNEZA})$

$T = \text{project}(\text{select}(\text{CPR_OPRIETATE}, \text{INCHIRIAT}, \text{id_filtrat} = 15, \text{tarif} > 1000), \text{id})$

REZULTAT = division(S, T)

2.



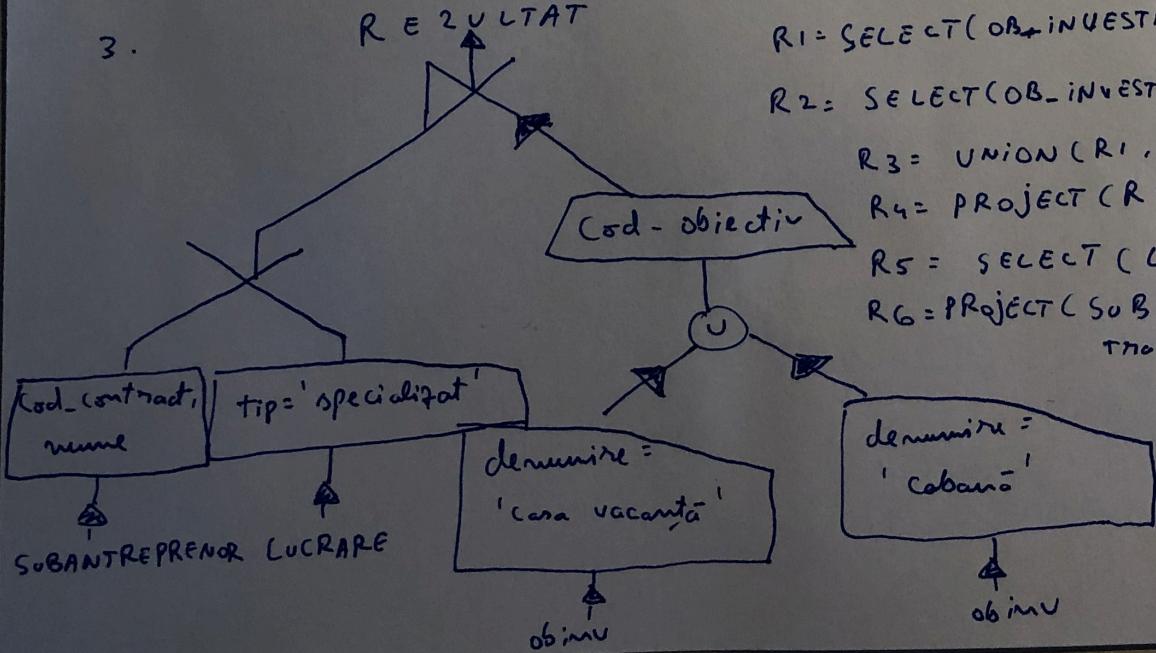
$R = \text{SELECT}(\text{SACARIAT})$
 $S_1 = \text{join}(R, \text{REALIZEAZA})$
 $S_2 = \text{join}(S_1, \text{FRAME})$

$S_3 = \text{join}(S_2, \text{CAPITOL})$

$S_4 = \text{join}(S_3, \text{PUBLICATIE})$

REZULTAT = $(R - S_4, \text{Salariul} \geq \alpha)$

3.



$R_1 = \text{SELECT}(\text{OB_INVESTITIE}, \text{denumire} = 'casă vacanță')$

$R_2 = \text{SELECT}(\text{OB_INVESTITIE}, \text{denumire} = 'cabană')$

$R_3 = \text{UNION}(R_1, R_2)$

$R_4 = \text{PROJECT}(R_3, \text{cod_obiectiv})$

$R_5 = \text{SELECT}(\text{LUCRAR}, \text{Tip} = 'specializat')$

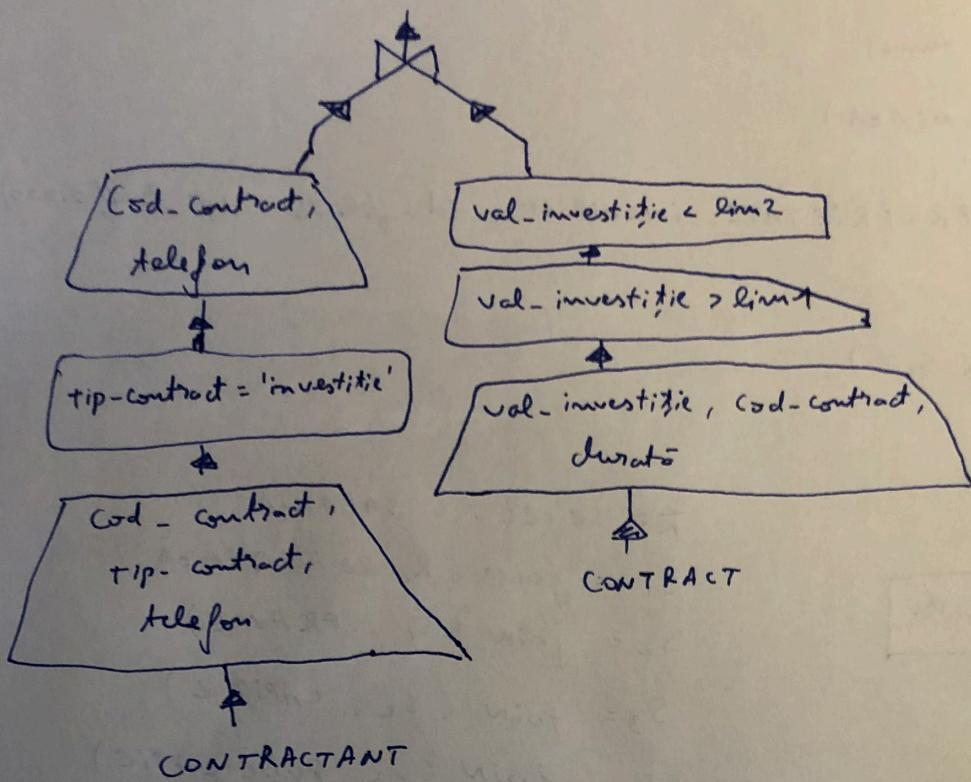
$R_6 = \text{PROJECT}(\text{SUBANTREPRENOR}, \text{cod_contract}, \text{nume})$

$R_7 = \text{Semijoin}(R_6, R_5)$

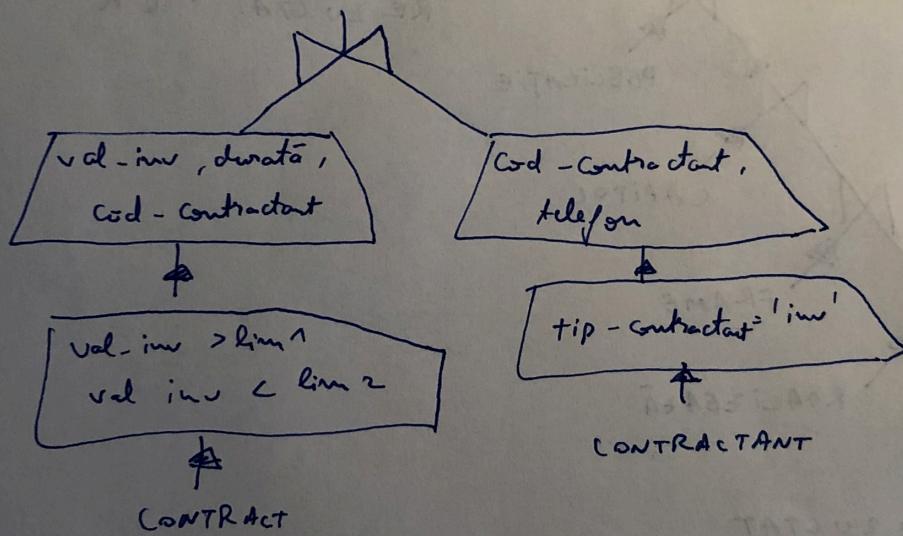
REZULTAT = SEMIJJOIN(R7, R4)

4.

REZULTAT



REZULTAT



5.

