

BEATRICE PIRAS

5259888

HOMEWORK *1 : RELATIONAL ALGEBRA

Ex 1.

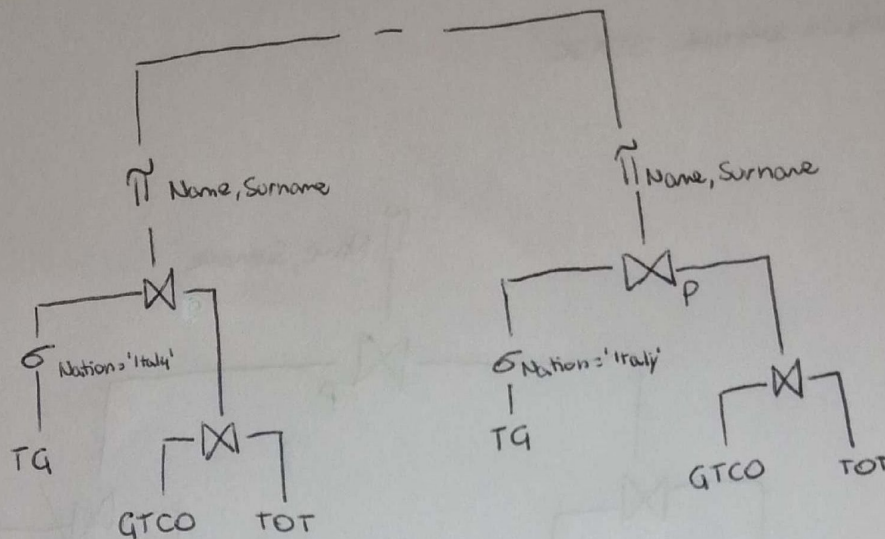
TOUR-GUIDE = TG

TYPE-OF-TOUR = TOT

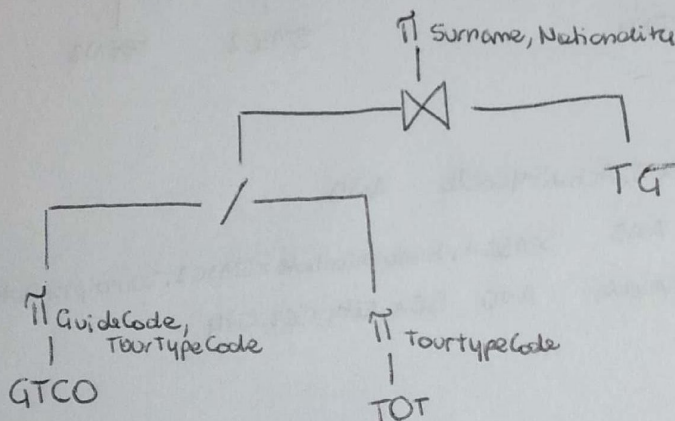
GROUP = G

GUIDED-TOUR-GARNISHED-OUT
GTCO

a)



b)



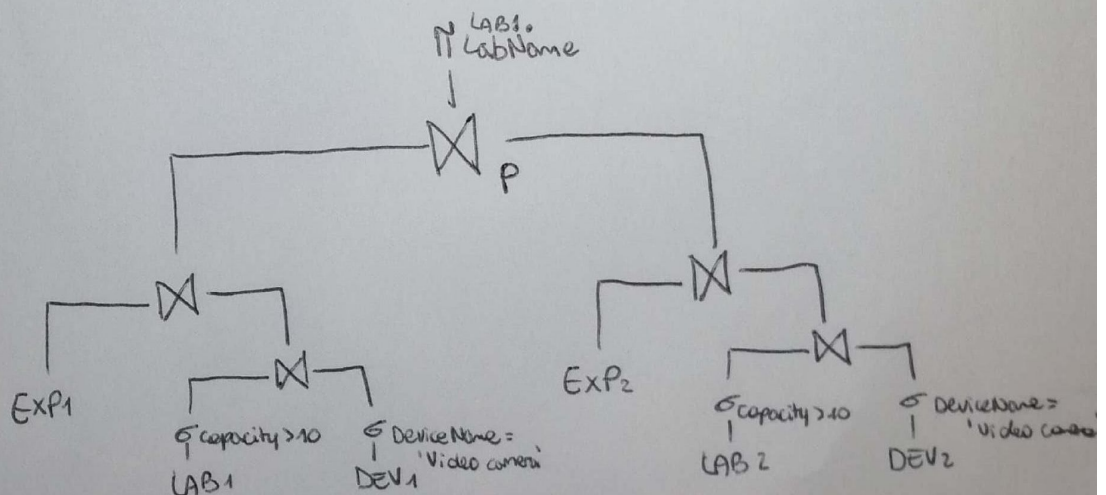
Ex 2

STUDENT = S

LABORATORY = LAB

DEVICE = DEV

EXPERIMENT = EXP



$p = LAB1.LabId = LAB2.LabId \text{ AND } EXP1.DeviceId = EXP2.DeviceId$
 $\text{AND } EXP1.Date = EXP2.Date \text{ AND } EXP1.StudentId = EXP2.StudentId$

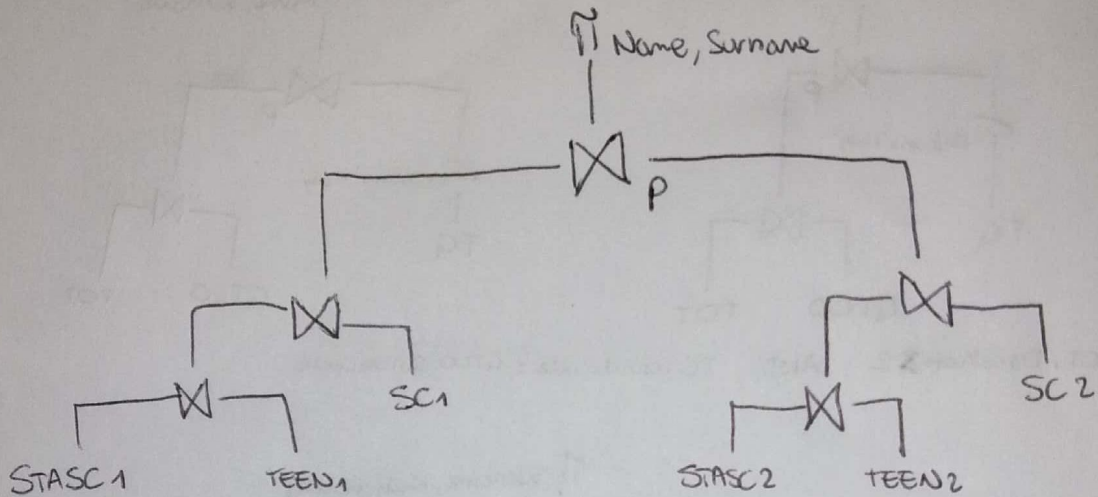
Ex 3

TEENAGER = TEEN

Activity = A

SUMMER-CAMP = SC

SUBSCRIPTION-TO-ACTIVITY-IN-SUMMERCAMP = STASC



$p = \text{STASC 1. ActivityCode} \neq \text{STASC 2. ActivityCode} \quad \text{AND}$

$\text{TEEN 1. SSN} = \text{TEEN 2. SSN} \quad \text{AND}$

$\text{STASC 1. SubscriptionDate} = \text{STASC 2. SubscriptionDate} \quad \text{AND}$

$\text{SC 1. Campcode} \neq \text{SC 2. Campcode} \quad \text{AND} \quad \text{SC 1. City} = \text{SC 2. City}$