GAM Prollen 83

Simplify query into: SELECT ENAME, PNAME

FROM EMP, ASG, PROJ

WHERE DUR >12

AND (TITLE: "Elect Eng" OR ASH, PNO < 'P3')

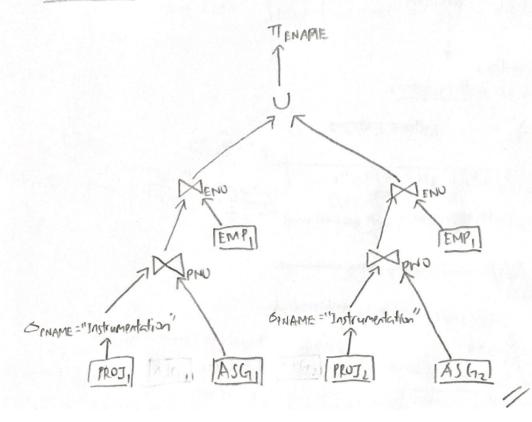
AND EMPNO = ASG. NO

AND ASG. NO = PROJ. NO

optimized operator tree:

GTITLE "Elect. Eng" VASG. PAU C"P3" ASG

Problem 8.8



Goal! Want to achieve EMP WASh MPROJ optimally.

Assume transmission time is I unit along each porth.

Applying Hill Climbing Algorithms

Initial Feasible Solution:

1 All move to Site 1: Total cost = 200+2×300 = 800

(2) All move to Site 1: Total cost = 100 + 300 = 400 ] Same cost.
(3) All move to Site 3: Total cost = 100 x 2 + 200 = 400 ] Same cost.

If c'house (2):
Determine andidate splits:

PRUJ-) SIte 1, EMPINASG
PRUJ-) SIte 1, ASGIN PRUJ
Total cost = 200+200 = 400 No improvement.

If chose 3):
peternine cardiate splits:

[3.1] EMP-15/1-12, (EMP 10 ASG) -> SHe 3 Total cool = 100 + 200 = 300 => Improvement. Optimal.

: Optimal join program:

ASG' = EMP MENO ASG' MPNO PROJ.