

Name: Khanh Luu - ID: 301526589
Dec 02, 2020

CSC 174 Assignment 5

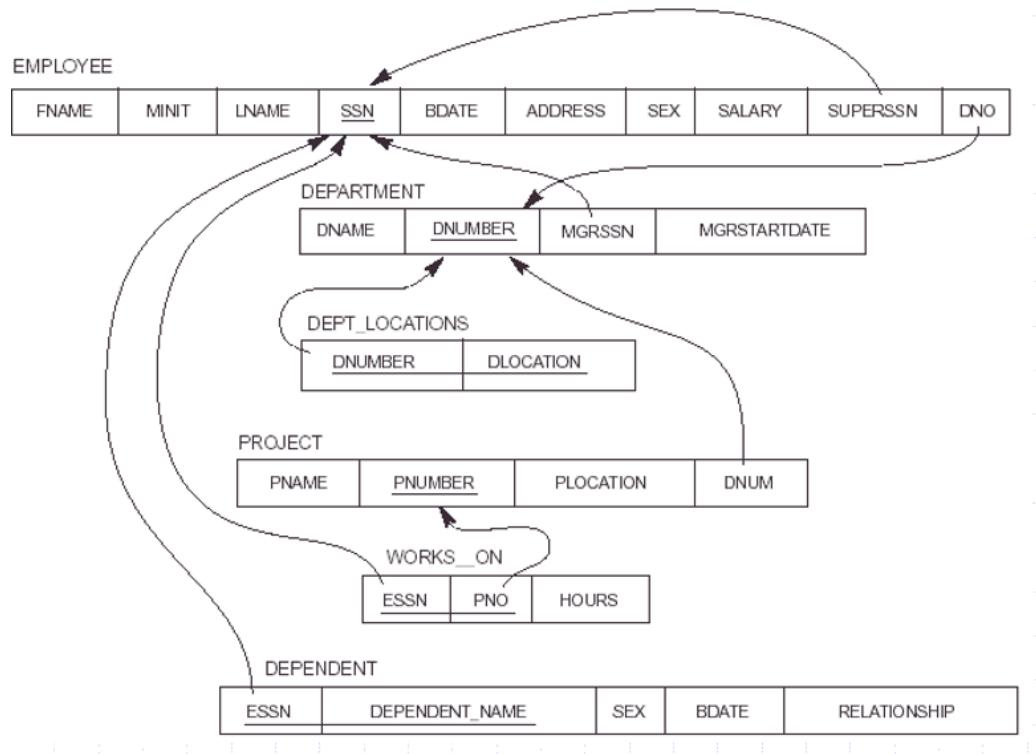
Given the following SQL query based on the schema below, please construct an initial query tree, then show the successive query trees generated during the query optimization process, step by step. Please write number with each step, for example, Tree1, Tree 2.

No need to type the submission. Submit a PDF file to Canvas.

Select dname

From department, project

Where pname='XYZ' and dnumber=dnum



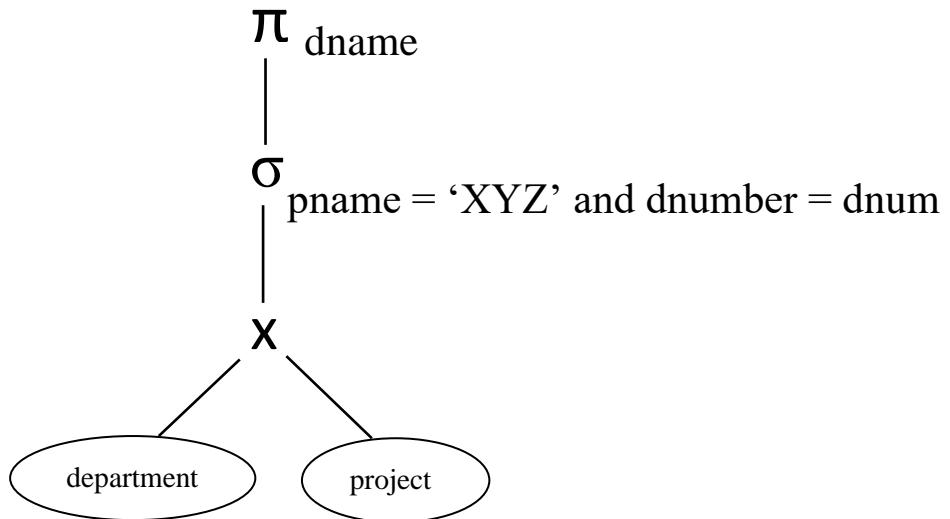
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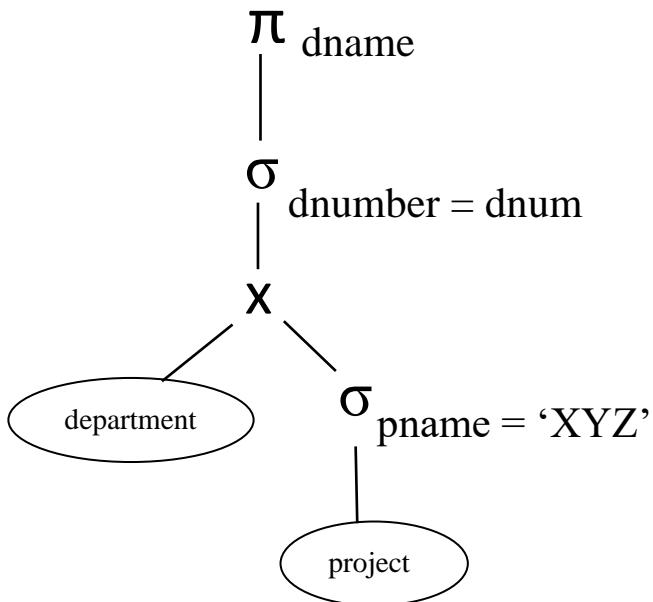
Answer:

$\pi_{\text{dname}} (\sigma_{\text{pname} = \text{'XYZ'} \text{ and } \text{dnumber} = \text{dnum}} (\text{department} \times \text{project}))$

Tree 1:

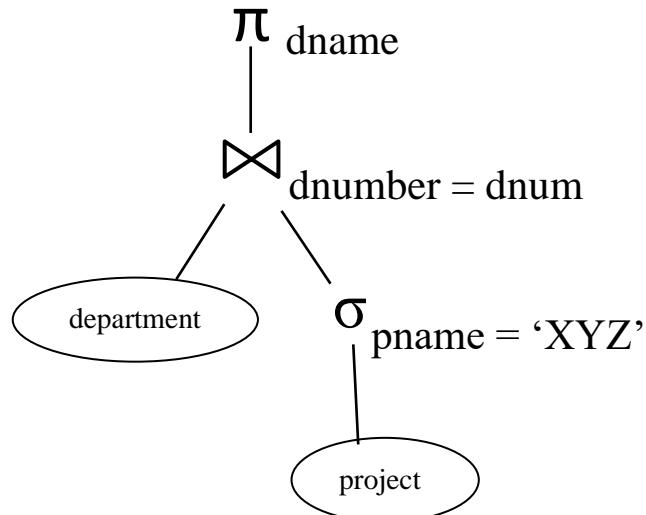


Tree 2:



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Tree 3:



Tree 4:

