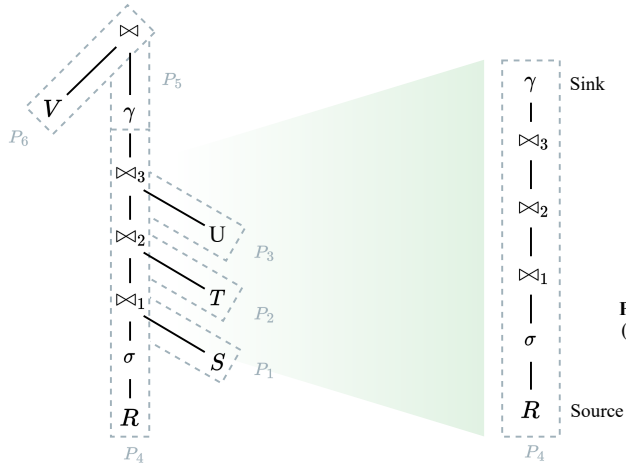
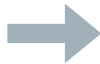


**SELECT ...**  
**FROM** R, S, T, U, V  
**WHERE ...**  
**GROUP BY ...**

Unmodified  
Optimizer



**POLAR**



**Pipeline Construction**  
(Join Order Selection,  
Custom Operators)

