

# 查询树的启发式优化算法练习

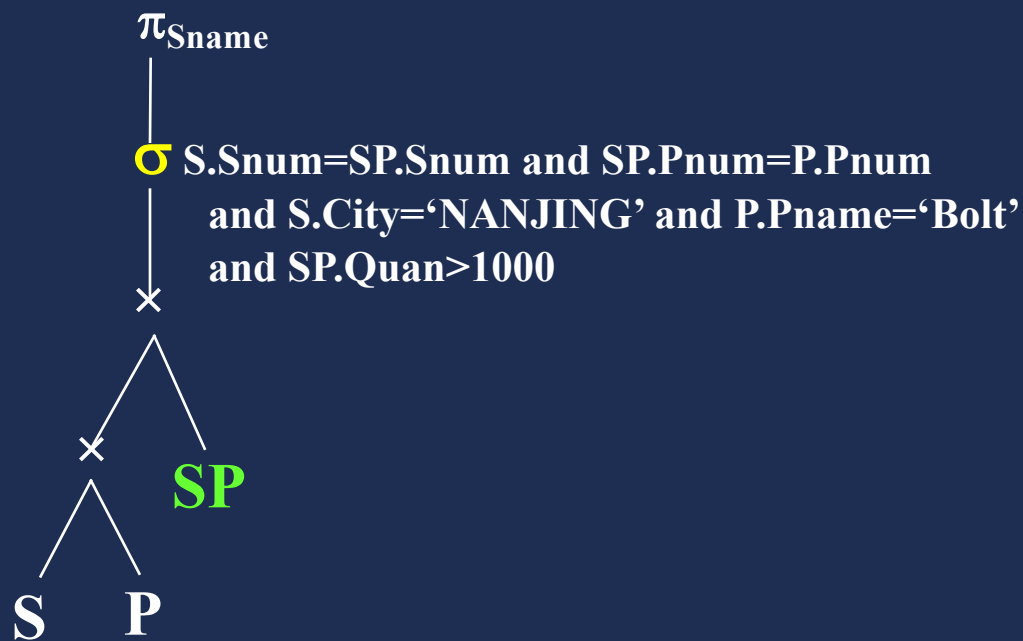
- 设有供应商S, 零件P和供应关系SP三个关系  
S(Snum, Sname, City) 10000条记录  
P(Pnum, Pname, Weight, Size) 20000条记录  
SP(Snum, Pnum, Dept, Quan) 10000条记录
- 查询语句

```
select Sname
from S, SP, P
where S.Snum=SP.Snum
and SP.Pnum=P.Pnum
and S.City='NANJING'
and P.Pname='Bolt'
and SP.Quan>1000;
```
- 原始语法树

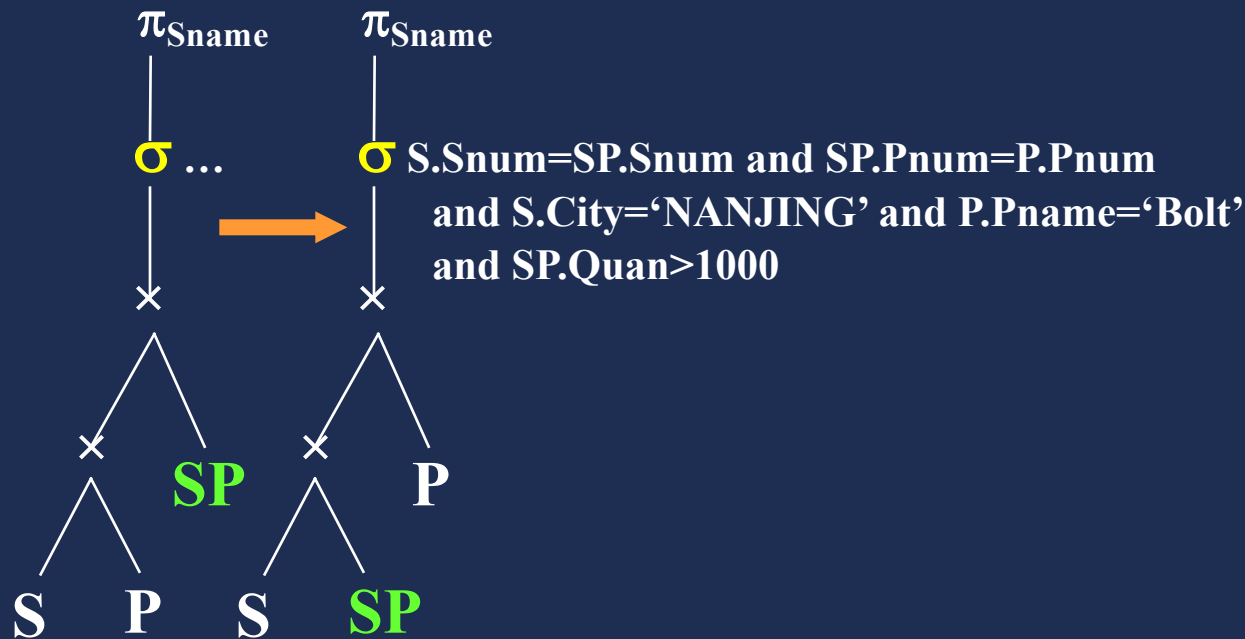
```
select--投影
from--笛卡尔积
where--选择
```



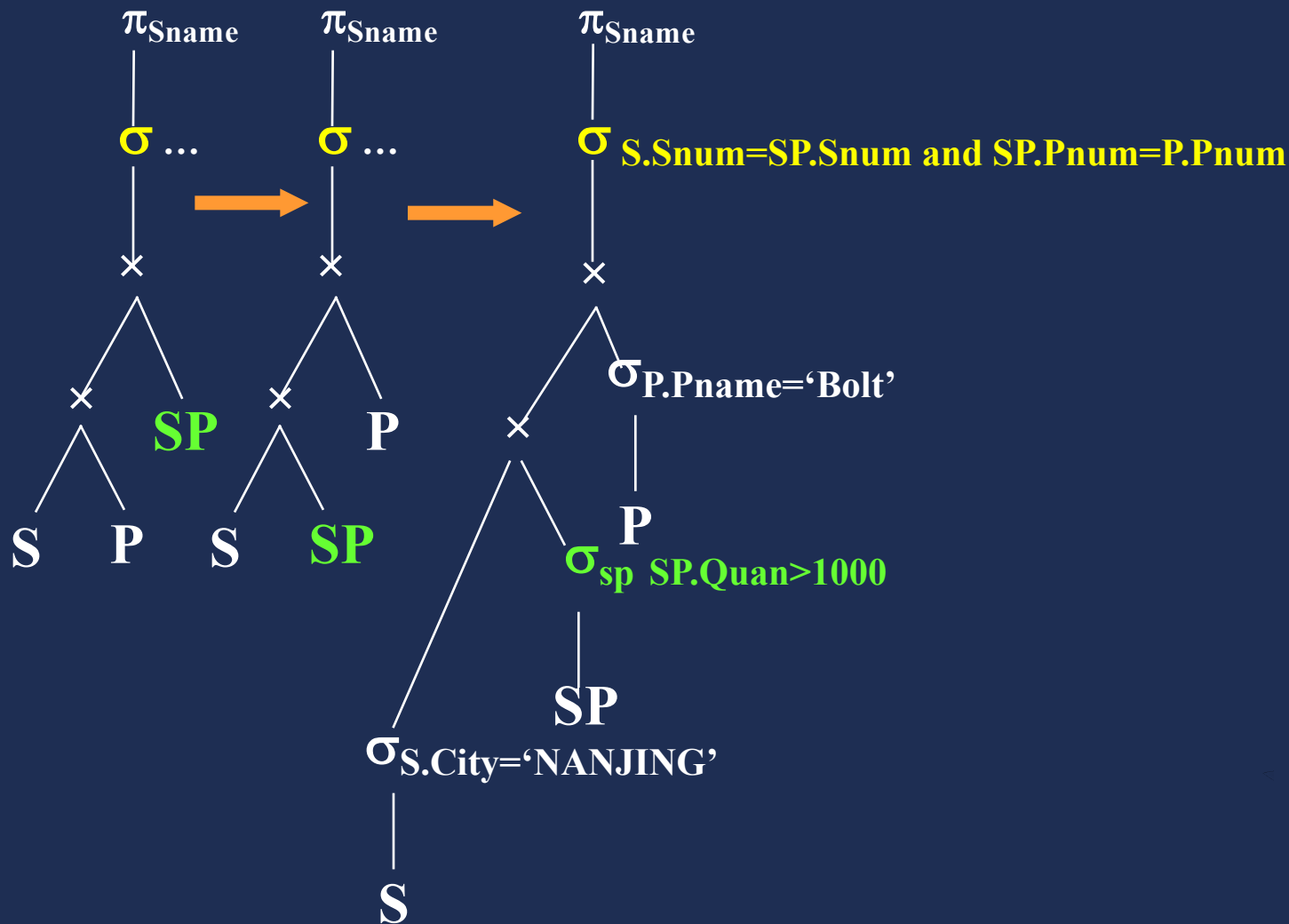
# 查询树的启发式优化算法解答



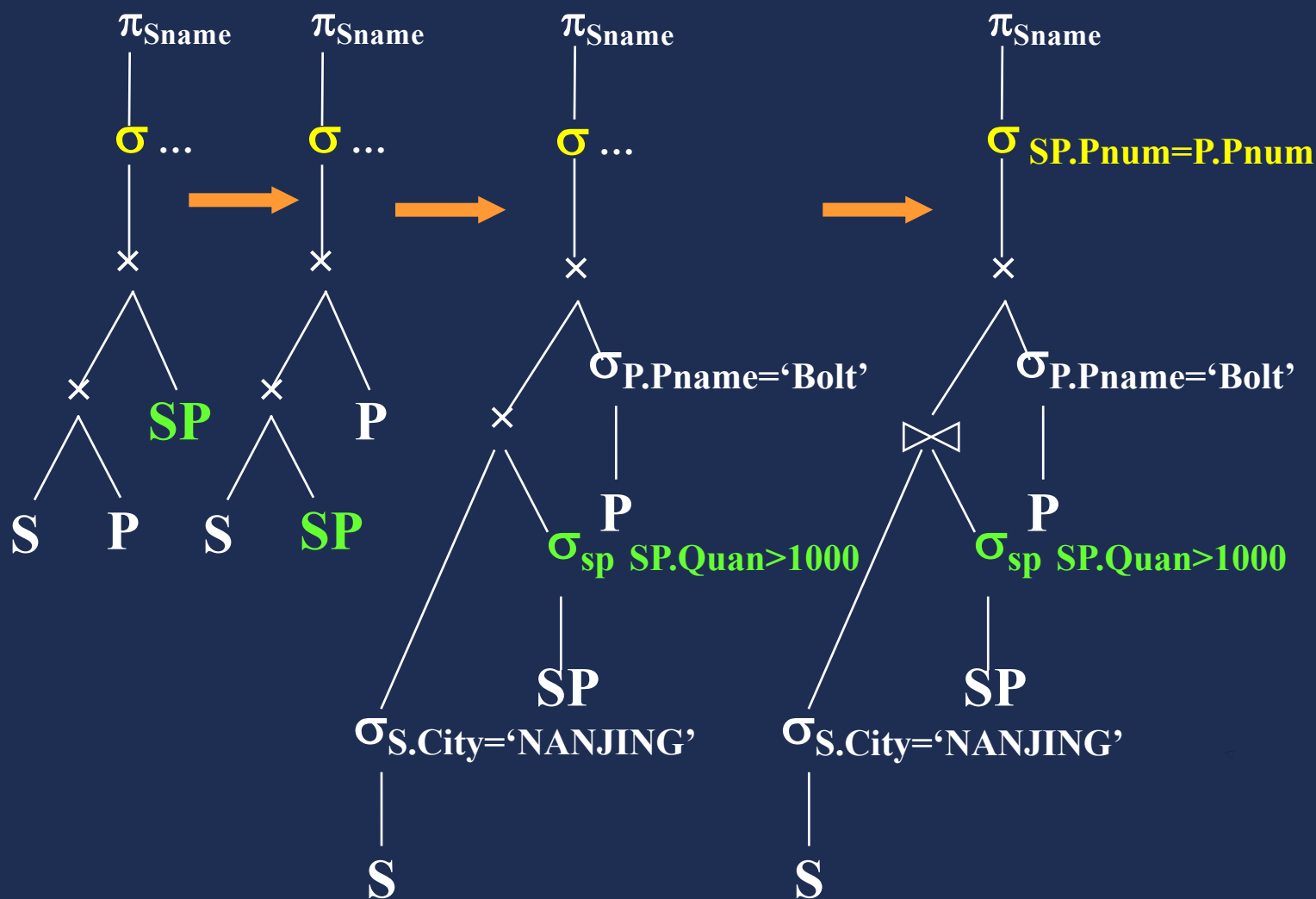
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