

第九章 2019218211 李浩然

select Cname

from student, Course, SC

where student.Sno = SC.Sno and SC.Sno = Course.Cno and student.Sdept = 'IS'

最初语法树

结果

project (Cname)

select (student Sdept = 'IS')

join (SC.Sno = Course.Cno)

Join (student.Sno = SC.Sno)

Student

SC

Student

SC

关系代数

π Cname

σ student.Sdept = 'IS'

σ SC.Cno = Course.Cno

σ student.Sno

Course

Course = SC.Sno

优化后

π Cname

σ SC.Cno = Course.Cno

σ student.Sno

Course

SC

σ student.Sdept = 'IS'

Student