

1.  $\Pi_{SID, GPA}(\sigma_{sizeHS > 1000 \wedge major = 'CS' \wedge decision = 'admitted' \wedge Student.sID = Apply.sID} (Student \times Apply))$

2. select Student.sID, GPA

from Student, Apply

where sizeHS > 1000 and major = 'CS' and decision = 'admitted' and Student.sID = Apply.sID

3.  $\Pi_{SID}(\sigma_{major = 'CS'} Apply) \cap \Pi_{SID}(\sigma_{major = 'EE'} Apply)$

4. select sID from Apply where major = 'CS'

Intersect

select sID from Apply where major = 'EE'

5. select cName, count(\*)

from Apply

group by cName