

$\{s_{k,d}: k \in \mathcal{K}(x), d \in C(x)\}\ \{e_{d,d'}\}$ Real schema \mathcal{D} college.student.age, club.student.age, C(x)club.club.clubid, college.student.stu_num, shop_membership.membership_register_branch.branch_id, club.member of club.club id, Solve collective objective shop membership.branch.membership amount, club.student.major, club.club.clublocation, college.student.stu class, shop membership.membership_register_branch.member_id, club.student.stuid, e_learning.students.student_id, R(x) = club.student.age,shop membership.membership register branch.register year, club.member of club.clubid, club.club.clubname, club.member of club.stuid shop membership.member.member id, student assessment.students.student id, coffee shop.member.age, club.member of club.stuid, gymnast.people.age, debate.people.age, culture company.book club.year, journal committee.editor.age, dorm.student.age, club.member of club.position, riding club.club.club id, baseball.team.attendance, club.student.advisor, riding club.club.start year, university baskteball.university.enrollment, club.clubdesc. student assesment.student course attendance.student id, behavior monitoring.students.student id

in Eqn. (6)

Text2SQL

 $\hat{q}(x)$