RELATIONAL ALGEBRA

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1)
T s_id, s_name, c_id, c_id (Student ⋈ S.s_id = E.s_id Enroll ^ Enroll ⋈ E.c_id = C.c_id Course ^
(c_name= 'Database' ^ c_name = 'FrontEnd')(Student, Course, Enroll))
2)
Π s_id, name, address (σ address = 'Kazakhstan' (Student))
3)
T s id, s gpa, m name (Student × S.s id = M.s id Major ^ S.gpa = 3 (Student, Major))
4)
T s_name, c_name (Student ⋈ S.s_id = E.s_id Enroll ^ Enroll ⋈ E.c_id = C.c_id Course ^ c_name=
'Database' (Student, Course, Enroll))
5)
MAX := Y Max(Gpa)(Student)
\sigma gpa = MAX(Student)
6)
\Pi s_id, name, age (\sigma age < 18 (Student))
7)
Counter := Y COUNT(GPA)
σ gpa = (Counter(Student) < 1)
8)
T p_name, c_name (Professor × P.p_id = S.p_id Section ^ Section × S.c_id = C.c_id Course ^
c_name = 'FrontEnd'(Professor, Section, Course))
9)
Tage, gpa (Student)
10)
T p name, a name (Assistant ⋈ A.dept id = P.dept id Professor(Assistant, Professor))
11)
Course \leftarrow (Course - \sigma name 'Django' (Course) U \Pi name(\sigma name = "Java" (Course)))
12)
MAX := MAX(experience)

    □ p_name, Y MAX(experience)(Professor)
```