**Skill entity constraints:**

name NULL UNIQUE

category NOT NULL

CHECK(category IN ('Software', 'FineArts', 'Science','Sports')

**Address entity constraints:**

country NOT NULL

city NOT NULL

street NOT NULL

UNIQUE(country, city, street)

**Organization entity constraints:**

name NOT NULL UNIQUE

phone NOT NULL

mail NOT NULL UNIQUE

type NOT NULL

CHECK( type IN ('CMP','UNI')

**Office entity constaints:**

address\_id NOT NULL

org\_id NOT NULL

name NOT NULL

UNIQUE(org\_id, name, address\_id)

CHECK( 'CMP' = get\_type(org\_id)

**Job offer** **entity constraints:**

job\_title NOT NULL

description NOT NULL

address\_id NOT NULL

office\_id NOT NULL

UNIQUE (job\_title, address\_id, office\_id)

**Faculty entity constraints:**

name NOT NULL

org\_id NOT NULL

CHECK ( 'UNI' = get\_type(org\_id)

UNIQUE (org\_id, name)

**Department entity constraints:**

name NOT NULL

faculty\_id NOT NULL

address\_id NOT NULL

UNIQUE (dept\_id, name)

**Graduate level entity constraints:**

name NOT NULL

dept\_id NOT NULL

UNIQUE (grad\_id, name)

**Person entity constraints:**

fname NOT NULL

lname NOT NULL

mail NOT NULL UNIQUE

bday NOT NULL

address\_id NOT NULL

**Teacher entity constraints:**

teacher\_id NOT NULL UNIQUE

dept\_id NOT NULL

**Student entity constraints:**

student\_id NOT NULL UNIQUE

grade NOT NULL

CHECK ( grade IN ('1', '2', '3', '4')),

CHECK ( gpa = null OR ( 0<= gpa AND gpa <= 4.0)

**Member entity constraints:**

member\_id UNIQUE

password NOT NULL,

CHECK( char\_length(password)>=8)

**File entity constraints:**

name NOT NULL

privacy BOOLEAN DEFAULT TRUE

person\_id NOT NULL

CHECK ( 'True' = assert\_is\_student(person\_id) OR 'True' = assert\_is\_teacher(person\_id)

UNIQUE (person\_id, name)

**Course entity constraints:**

name NOT NULL

code NOT NULL

credit NOT NULL

dept\_id NOT NULL

CHECK(0<credit AND credit<9)

**Project entity constraints:**

title NOT NULL

description NOT NULL

course\_id NOT NULL

UNIQUE(course\_id, title)

**Group entity constraints:**

name NOT NULL UNIQUE

description NOT NULL

member\_id NOT NULL