DBS-CP1

Language school

name

street

address

fax

(0...1)

number

(1...N)

phone

email

postal code

(1..N)

consists of

language school card number

passport

Person

(1...1)

name

position

Staff

(0...N)

(1...N)

street

address

email

provide

domain

Website

(1...N)

(1...N)

Teacher

(1...N)

starting language level

Student

(0...1)

(0...N)

make

control

(1...N)

Payment

(0...N)

invite

(0...1)

(0...1)

(1...N)

number

method

publish HW and grades

has

login

Teacher account

(1...1)

teaches

study

has

level

language

login

Student account

Group

(1...1)

(1...N)

(1...1)

(1...N)

do HW and check grades

create

Roman Danilchenko

Person(<u>passport</u>, <u>language school card number</u>, name, street, email)

LanguageSchool(<u>name,</u> street, email, postalCode, personID)

      FK: (personID) ⊆Person(passport, languageSchoolCardNumber)

Number(<u>name,</u> fax, phone)

      FK: (name) ⊆LanguageSchool(name)

Teacher(<u>id</u>)

      FK: (id) ⊆Person(passport, languageSchoolCardNumber)

TeacherAccount(<u>login</u>)

TeacherAccountOwnership(<u>teacher</u>, <u>account</u>)

      FK: (teacher) ⊆Teacher(id)

      FK: (account) ⊆TeacherAccount(login)

Student(<u>id</u>, startingLanguageLevel)

      FK: (id) ⊆Person(passport, languageSchoolCardNumber)

Invitation(<u>student</u>, <u>friend</u>)

      FK: student ⊆Student(id)

      FK: friend ⊆Student(id)

StudentAccount(<u>login</u>)

StudentAccountOwnership(<u>student</u>, <u>account</u>)

      FK: (student) ⊆Student(id)

      FK: (account) ⊆StudentAccount(login)

Staff(<u>id</u>, position)

      FK: (id) ⊆Person(passport, languageSchoolCardNumber)

Payment(<u>student, number,</u> method)

      FK: (student) ⊆Student(id)

PaymentControl(<u>employee, payment</u>)

      FK: (employee) ⊆Staff(id)

      FK: (payment) ⊆Payment(number)

Group(<u>teacher, level, language</u>)

    FK: (teacher) ⊆Teacher(id)

GroupCreation(<u>employee, group</u>)

    FK: (employee) ⊆Staff(id)

    FK: (group) ⊆Group(teacher, level, language)

Lesson(<u>student, group</u>)

    FK: (student) ⊆Student(id)

    FK: (group) ⊆Group(teacher, level, language)

Website(<u>domain</u>, teacherAccount, studentAccount)

    FK: (teacherAccount) ⊆TeacherAccount(login)

    FK: (studentAccount) ⊆StudentAccount(login)

WebsiteOwnership(<u>school</u>, <u>domain</u>)

    FK: (school) ⊆LanguageSchool(name)

    FK: (domain) ⊆Website(domain)

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