

EducationAgency(id,phone,departmentLocation,email)

StudyOffice(id)

Foreign key: id to EducationAgency.id

Department(id,name)

Foreign key: id to EducationAgency.id

Employee(ssn,phone, email,firstName,lastName)

StudyOfficeEmployee(ssn,soId)

Secondary key: soId

Foreign key: ssn to Employee.ssn

Foreign key: soId to StudyOffice.id

DepartmentEmployee(ssn,dId)

Secondary key: dId

Foreign key: ssn to Employee.ssn

Foreign key: dId to Department.id

Teacher(ssn,dId,studyDegree)

Secondary key: dId

Foreign key: ssn to Employee.ssn

Foreign key: dId to Department.id

MainTeacher(ssn)

Foreign key: ssn to Teacher.ssn

Student(ssn,firstName,lastName,dId)

Foreign key: dId to Department.id

Not null: dId

StudyStatus(sid,semesterId,status)

Foreign key: sid to Student.ssn, semesterId to Semester.id

Check for status in ('normal', 'pause', 'stop')

Subject(id, name, credit)

Check for credit in [1, 3]

Semester(id, startDate, endDate)

Check for startDate < endDate

RerferenceBook(id, name, releasedDate)

Check for releasedDate to now less than 10 years

Author(ssn, firstName, lastName)

Publisher(id, name, nation)

Class(id, Semester_id, Subject_id, maxStudent)

Foreign key: Semester_id to Semester.id, Subject_id to Subject.id

Check for maxStudent <= 60

Opens(Semester_id, Subject_id, Department_id)

Foreign key: Semester_id to Semester.id,

Subject_id to Subject.id,

Department_id to Department.id

Uses(Subject_id, Mainteacher_ssn, ReferenceBook_id)

Foreign key: Subject_id to Subject.id,
Mainteacher_ssn to MainTeacher.ssn,
ReferenceBook_id to ReferenceBook.id

Write(Author_ssn, Book_id)

Foreign key: Author_ssn to Author.ssn,
Book_id to ReferenceBook.id

Check for Total participation of ReferenceBook

Field(Book_id, Field)

Foreign key: Book_id to Book.id

ReferenceBook(id, ..., Publisher_id)

Foreign key: Publisher_id to Publisher.id
Not Null: Publisher_id

Register(Student_id, Semester_id, Subject_id, Class_id)

Foreign key: Student_id to Student.ssn,
(Semester_id, Subject_id, Class_id) to Class.(Semester_id, Subject_id, id)

MainResponsible(Semester_id, Subject_id, Mainteacher_ssn)

Foreign key: Mainteacher_ssn to MainTeacher.ssn, Semester_id to Semester.id, Subject_id to Subject.id

Check for total participation of MainTeacher

Week(id, Semester_id, startDate)

Foreign key: Semester_id to Semester.id

Responsible(Semester_id, Subject_id, Class_id, Week_id, Week_Semester_id, Teacher_ssn)

Foreign key: (Semester_id, Subject_id, Class_id) to Class.(Semester_id, Subject_id, id)

(Week_id, Week_Semester_id) to Week.(id, Semester_id)

Teacher_ssn to Teacher.ssn

Check for total participation of Class