

**EducationAgency(id,phone,departmentLocation,email)**

**StudyOffice(id,eaId)**

Foreign key: eaId to EducationAgency.id

**Department(id,name,eaId)**

Foreign key: eaId 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**(id,firstName,lastName,dId)

Foreign key: dId to Department.id

**StudyStatus**(sid,semesterId,status)

Foreign key sid to Student.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.id,  
(Semester\_id, Subject\_id, Class\_id) to Class.(Semester\_id, Subject\_id, id)

**Class(id, Semester\_id, Subject\_id, ..., MainTeacher\_ssn)**

Foreign key: MainTeacher\_ssn to MainTeacher.ssn  
Not Null: MainTeacher\_ssn  
Check for Total participation of MainTeacher

**Week**(Teacher\_ssn, Semester\_id, Subject\_id, Class\_id, week)

Foreign key: Teacher\_ssn to Teacher.ssn,

(Semester\_id, Subject\_id, Class\_id) to Class.(Semester\_id, Subject\_id, id)

Check for Total participation of Class