

Parent(**parent SSN**,first_name,last_name,username,password,address,gender,email,home_num)
Parent-mobile_num(**parent SSN**, **mobile num**)

Parent-mobile_num.parent_SSN references Parent.parent_SSN
Child(**child SSN**,first_name,last_name,birth_date,age,gender)
Where Child.age =current_year - Child.birth_date

Parent-child(**parent SSN**,**child SSN**)

Parent-child.parent_SSN references Parent.parent_SSN
Parent-child.child_SSN references Child.child_SSN

Student(**s id**,**child SSN**,s_name,s_address,username,password,grade)

Student.child_SSN references Child.child_SSN
Student.s_name references School.s_name
Student.s_address references School.s_address

Where Student.grade is decided based on Student.age
School(**s name**,**s address**,general_info,phone_number,email,type,main_language,vision,mission,URL)
School_grades(**s name**,**s address**,**grade**)

School_grades.s_name references School.s_name
School_grades.s_address references School.s_address
School_fees(**s name**,**s address**,**fees**)

School_fees.s_name references School.s_name
School_fees.s_address references School.s_address

Elementary_school(**s name**, **s address**)

Elementary_school.s_name references School.s_name
Elementary_school.s_address references School.s_address

Constraint: Elementary_school is a predicate -defined relation: School_grades.grade

Elementary_supplies(**s name**, **s address**, **supply**)

Elementary_supplies.s_name references School.s_name
Elementary_supplies.s_address references School.s_address

Middle_school(**s name**, **s address**)

Middle_school.s_name references School.s_name
Middle_school.s_address references School.s_address

Constraint: Middle_school is a predicate -defined relation: School_grades.grade

High_school(s_name, s_address)

High_school.s_name	references	School.s_name
High_school.s_address	references	School.s_address

Constraint: High_school is a predicate -defined relation: School_grades.grade

Parent-child-school(child_SSN,parent_SSN,s_name,s_address)

Parent-child-school.parent_SSN	references	Parent.parent_SSN
Parent-child-school.child_SSN	references	Child.child_SSN
Parent-child-school.s_name	references	School.s_name
Parent-child-school.s_address	references	School.s_address.

Parent-review-school(parent_SSN,s_name,s_address , review)

Parent-review-school.parent_SSN	references	Parent.parent_SSN
Parent-review-school.s_name	references	School.s_name
Parent-review-school.s_address	references	School.s_address

Course(code, name, description, grade,s_name,s_address)

Course.e_id	references	Teacher.e_id //course is given by teacher
Course.s_name	references	School.s_name
Course.s_address	references	School.s_address

Student-has-course(s_id, code, e_id)

Student-has-course.s_id	references	Student.s_id
Student-has-course.code	references	Course.code
Student-has-course.e_id	references	Teacher.e_id

Course-is-prerequisite(code1,code2)

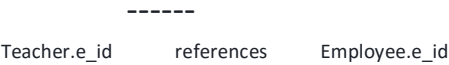
Course-is-prerequisite.code1	references	Course.code
Course-is-prerequisite.code2	references	Course.code

Employee(e_id,first_name,middle_name,last_name,username,password,address,age,gender,email,birth_date,salary,email,s_name,s_address)

Employee.s_name	references	School.s_name
Employee.s_address	references	School.s_address

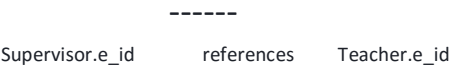
Where Employee.age =current_year - Employee.birth_date

Teacher(e_id, start_date, years_of_experience)



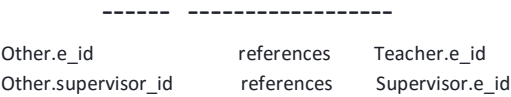
Where Teacher.years_of_experience =current_year - Teacher.start_date

Supervisor(e_id)



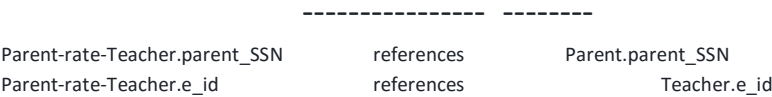
Constraint: Supervisor is a predicate -defined relation: Teacher.years_of_experience

Other(e_id, supervisor_id)

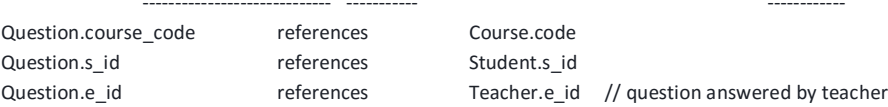


Constraint: Other is a predicate -defined relation: Teacher.years_of_experience

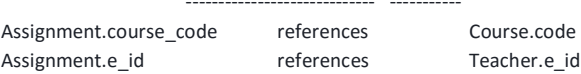
Parent-rate-Teacher(parent SSN,e_id, rating)



Question(course_code,s_id,question,answer,date,e_id)

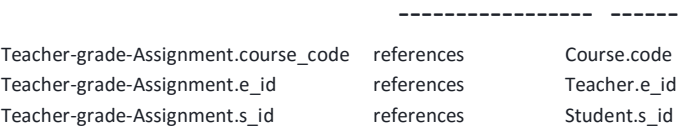


Assignment(course code,e_id,post_date,due_date,duration,content)



Where Assignment.duration = Assignment.due_date - Assignment.post_date

Teacher-grade-Assignment(course code,e_id,s_id,score)



Student-solve-Assignment(course code,e eid,s id,answer)

Student-solve-Assignment.course_code	references	Course.code
Student-solve-Assignment.e_id	references	Teacher.e_id
Student-solve-Assignment.s_id	references	Student.s_id

Report(e_id,s_id, date, teacher_comment)

Report.e_id	references	Teacher.e_id
Report.s_id	references	Student.s_id

Parent-reply-report(e_id,s_id,parent SSN,date, reply)

Parent-reply-report.e_id	references	Teacher.e_id
Parent-reply-report.s_id	references	Student.s_id
Parent-reply-report.parent_SSN	references	Parent.parent_SSN

Admin(e_id)

Admin.e_id	references	Employee.e_id

Announcement(date,title,e_id,description,type)

Announcement.e_id	references	Admin.e_id

Parents-Students-view-Announcements(parent SSN,s_id ,date,title)

Parents-Students-view-Announcements.parent_SSN	references	Parent.parent_SSN
Parents-Students-view-Announcements.s_id	references	Student.s_id
Parents-Students-view-Announcements.date	references	Announcement.date
Parents-Students-view-Announcements.title	references	Announcement.title

Activity(date,location,description,type,equipment,a_id , t_id)

Activity.a_id	references	Admin.e_id
Activity.t_id	references	Teacher.e_id

Club(c_name, purpose)

High_School-offers-club(name, s_name, s_address)

High_School-offers-club.name	references	Club.name
High_School-offers-club.s_name	references	School.s_name
High_School-offers-club.s_address	references	School.s_address

Student-join-club(name, s_id)

Student-join-club.name	references	Club.name
Student-join-club.s_id	references	Student.s_id