

Constraint: High school is a predicate-defined relation: School.max grade

Parents(<u>username</u>, password, email, first_name, last_-name, home_phone, city, street, block, zipcode)

Parent_mobile_numbers(<u>username</u>, <u>mobile_number</u>)

Parent_mobile_numbers.username references Parents

Employees(<u>ssn</u>, username, password, first_name, middle_name, last_name, birthdate, age, email, gender, salary, city, street, block, zipcode, school_name)

Employee.school_name references Schools

Teachers(<u>ssn</u>, start_date, experience, seniority_level,

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overall_rating, supervisor)

Teacher.ssn references Employee

Where experience = current date - start_date

Overall_rating= average value of all ratings in Parent_rates_Teacher

Parent_rates_Teacher(parent_username, teacher_ssn,

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rate_value)

Parent_rates_Teacher.parent_username references Parents

Parent_rates_Teacher.teacher_ssn references Teachers

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Admins(ssn)
Admin.username references Employees
Assignments(<u>id</u>, content , post_date, due_date)
Courses(code, name, description, grade, level)
Courses.level references Levels
Children(ssn, name, birthdate, age, gender, parent_user-
name)
Child.parent_username references Parents
Where age= current date - birthdate
Students(<u>ssn</u>, id, username, password, grade,
school_name)
Student.ssn references Children
Student.school_name references Schools
Activities(id, description, location, type, date, teacher_ssn,
admin_ssn)
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Activity.admin_ssn references Admins Announcements(id, title, description, type, date, admin_ssn) Announcements.admin_ssn references Admins Clubs(high_School, name, purpose) Club.high_School references High_School Equipment(<u>activity_id, name</u>, quantity, availability) Equipment.activity_id references Activities Reports (teacher ssn title, comment, date, student_ssn, parent_username) Report.teacher ssn references Teachers Report.parent username references Parents Report.student ssn references Students Questions (student ssn, course code, title, content, answer)

Activity.teacher_ssn references Teachers

Question.student_ssn references Students
Question.course_code references Courses
Assignments_Solved_by_Students (student_ssn,
<u>assignment_id</u> , solution, mark)
Student_solves_Assignment.student_ssn references Students
Student_solves_Assignment.assignment_id references Assignments
Parents_review_Schools(school_name,parent_username,
review)
Parent_reviews_School.school_name references Schools Parent_re-
views_School.parent_username references Parents
Clubs_Joined_by_Students (<u>student_ssn, school_name,</u>
<u>club_name</u>)
School_joins_Club.(school_name, club_name) references Clubs
School_joins_Club.student_ssn references Students



