School(School Number, Name, General_Information, Type, Main_language, Mission, Vision, Address, Fees)

School_Email(School Number, Email)

School_Email.School_Number references School

School_Phone_Number(School Number, Phone Number)

School_Phone_Number.School_Number references School

Elementary_School(School Number)

Elementary_School.School_Number references School

Elementary_Supplies(School Number, Supply)

Elementary_Supplies.School_Number references Elementary_School

Middle_School(School Number)

Middle_School.School_Number references School

High_School(School Number)

High_School.School_Number references School

Club(School Number, Name, Purpose)

Club.School_Number references High_School

Employee(Employee no, Fname, Middle_Name, Lname, Birthdate, Email, Username, Password, Address, Gender, Salary, School_Number)

Employee.School_Number references School

Teacher(Employee Number, Hire_Date, Experience_Years)

Teacher.Employee_Number references Employee

Where: Teacher.Experience_Years = current date – Teacher.Hire_Date

Administrator(Employee Number)

Administrator.Employee_Number references Employee

Supervisor(Employee Number)

Supervisor.Employee_Number references Teacher

Constraint: Supervisor is a predicate-defined Relation:Teacher.Experience_years > 15

NONSUPERVISOR(Employee Number, Supervisor Employee Number)

NONSUPERVISOR.Employee_Number references Teacher

NONSUPERVISOR.Supervisor_Employee_Number references Supervisor

Constraint: NONSUPERVISOR is a predicate-defined Relation:Teacher.Experience_years <= 15

Parent(Username, Password, Fname, Lname, Home_no, Address, Email)

Parent_Cell_Number(Username, mobile no.)

Parent_Cell_Number.Username References Parent

Child(<u>SSN</u>, Child_Name, Child_birthdate, age, Child_gender)

Where: Child.age = current date – Child.Child_birthdate

Enrolled(<u>SSN</u>, Username, Password, School_Number, Grade)

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Enrolled.SSN references Child

Enrolled.School_Number references School

Teaches(<u>SSN , Cid</u> , Teacher)

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Teaches.SSN references Enrolled

Teaches.Cid references Course

Teaches.Teacher references Teacher

Course(<u>Code</u>, Name, Description)

Announcement(<u>Date, Title, Type</u>, Employee_Number, Description)

Announcement.Employee_Number references Administrator

Extra_Curricular_Activity(<u>School Number, Date, Type, location</u> , Description, Location,

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Teacher_ID, Admin_ID, Equipment)

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Extra_Curricular_Activity.School_Number references School

Extra_Curricular_Activity.Teacher_ID references Teacher

Extra_Curricular_Activity.Admin_ID references Administrator

Question(<u>SSN, Question Number</u>, Teacher_ID, Content, Answer)

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Question.SSN references Enrolled

Question.Teacher_ID references Teacher

Review(Username, Content, School Num)
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Review.Username references Parent

Review.School_Num refereneces School

Assignment(Employee_Number, Code, Number, Posting_Date, Content,
          -------------- ----

Due_Date)

Assignment.Employee_Number references Teacher

Assignment.Code references Course

Assign_Sol(Employee Number, Code, Number, SSN, Answer,
          --------------------------- ---

Due_Date)

Assign_sol. (Employee_Number, Code, Number) references Assignment

Assign_sol. SSN references Enrolled

Report(SSN, Employee Number, date, comment ,Reply, Username)
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Report.SSN references Enrolled

Report.Employee_Number references Teacher

Report.Username references Parent

Activity_Applications(SSN, School Number, Date, Type, location)
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Activity_Applications.(School_Number, Date, Type, location) references Extra_Curricular_Activity

Activity_Applications.SSN references Enrolled

Ratings(Username, Employee Number, SSN, Rating)
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Ratings.Username references Parent

Ratings.Employee_Number references Teacher

Ratings.SSN references Enrolled

Parents_Applies_for_Child_in_School(Username, School Number, SSN, Status)

Applications.Username references Parent

Applications.School_Number references School

Applications.SSN references Child

Courses_taught_in_Grades(School Number, Code, Grade)

Grade_Courses.School_Number references School

Grade_Courses.Code references Course

Teacher_Grades_Assign._Sol(Employee, Employee Number, Code, Number, SSN , Mark)

Assignment_Grades.(Employee_Number, Code, Number) references Assign_Sol

Assignment_Grades.Employee references Teacher

Students_Members_of_Club(School Number, Name, SSN)

Club_Members.(School_Number, Name) references Club

Club_Members.SSN references Enrolled

Teacher_Teaches_Course_To_Students(Employee Number, Code, SSN)

Teaches.SSN references Enrolled

Teaches.(Employee_Number, Code) references Courses_taught_by_Teachers

Course_Prerequisite_Course(Course Code, Prerequisite Code)

Prerequisite.Course_Code references Course

Prerequisite.Prerequisite_Code references Course

Courses_taught_by_Teachers(cid, teacher_number)

Courses_taught_by_Teachers.teacher_number references Teacher

Courses_taught_by_Teachers.cid references Course