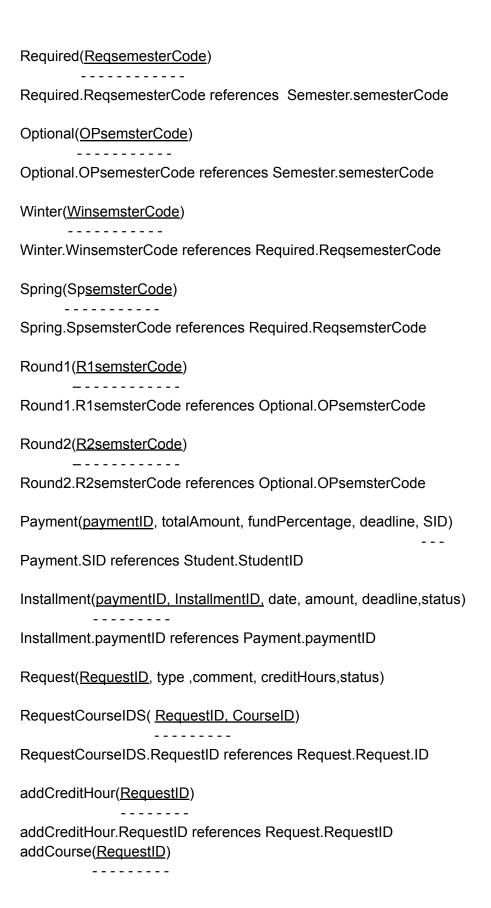## Relational schema :

User (<u>UserID</u>, Firstname,LastName, Email)

Admin(<u>AdminID</u>)
     - - - - - - -
Admin.AdminID references User.UserID

Advisor(<u>AdvisorID</u>, OfficeLocation)
     - - - - - - -
Advisor.AdvisorID references User.UserID

Student(<u>StudentID</u>, Gpa, Address, Faculty, Major, accquiredHours
       - - - - - - - -   , Assigned_hours,status,finanacialStatus,semsterCode)
                                      - - - - - - - - - -
Where student.status is derived from student.financial_status

Student.StudentID References User.UserID

Student.semsterCode references Semster.semsterCode

Submit(<u>StudentID,RequestID</u>)
     - - - - - - - - - - - - - - - -
Submit.StudentID references Student.StudentID
Submit.RequestID references Request.RequestID

StudentPhoneNumbers(<u>StudentID, Phonenumber</u>)
                 - - - - - - - -
StudentPhoneNumbers.StudentIDreferences Strudent.StudentID

Student_failedCourses(<u>StudentID, failedCourses</u>)
               - - - - - - - - -
       Student_failedCourse.StudentID references Student.StudentID

Course(<u>CourseID</u>, Name, IsOffered, CreditHours, Major, semsterCode)
                                       - - - - - - - - - - -
Course.semsterCode references Semster.semsterCode

Required(<u>ReqCourseID</u>)
       - - - - - - - - - - -
Required.ReqcourseID references Course.CourseID

Optional(<u>OpCourseID</u>)
       - - - - - - - - - - -

Optional.OpcourseID references Course.CourseID

prerequisite_to(CourseID1, CourseID2)
                  - - - - - - - - - - - - - - - - -
 prerequisite.CourseID1 references Course.CourseID
 prerequisite.CourseID2 references Course.CourseID

Missed(CourseID,StudentID,assignedHours)
        - - - - - - - - - - - - -
Missed.CourseID references Course.CourseID
Missed.StudentID references Student.StudentID

Takes(CourseID,StudentID,Grade)
        - - - - - - - - - - - - - - - -
Takes.CourseID references Course.CourseID
Takes.UserID references Student.StudentID

Instructor(InstructorID, Name, Faculty, OfficeLocation, email)

Choose(InstructorID,StudentID)
                  - - - - - - - - - - - - - - - - -
Choose.InstructorID references Instructor.InstructorID
Choose.StudentID references Student.StudentID

Slot(slotID, day, time, Location)

MakeupExam(examID, date)

First_Makeup(examID)
                - - - - - - -
First_ Makeup.examID references MakeUpExam.examID

Second_Makeup(examID)
                - - - - - - - -
Second_Makeup.examID references MakeUpExam.examID

Is_eligable(examID,StudentID)
              - - - - - - - - - - - - - - -
Is_eligable.examID References First_Makeup.examID
Is_eligable.StudentID References Student.StudentID

Semester(semesterCode,startDate,endDate , PaymentID)
                                            - - - - - - - - - -
Semester.PaymentID references Payment.PaymentID

Required(ReqsemesterCode)
      - - - - - - - - - - -

Required.ReqsemesterCode references Semester.semesterCode

Optional(OPsemsterCode)
      - - - - - - - - - -

Optional.OPsemesterCode references Semester.semesterCode

Winter(WinsemsterCode)
      - - - - - - - - - -

Winter.WinsemsterCode references Required.ReqsemesterCode

Spring(SpsemsterCode)
      - - - - - - - - - -

Spring.SpsemsterCode references Required.ReqsemsterCode

Round1(R1semsterCode)
      – - - - - - - - - - -

Round1.R1semsterCode references Optional.OPsemsterCode

Round2(R2semsterCode)
      – - - - - - - - - - -

Round2.R2semsterCode references Optional.OPsemsterCode

Payment(paymentID, totalAmount, fundPercentage, deadline, SID)
                                               - - -

Payment.SID references Student.StudentID

Installment(paymentID, InstallmentID, date, amount, deadline,status)
        - - - - - - - - -

Installment.paymentID references Payment.paymentID

Request(RequestID, type ,comment, creditHours,status)

RequestCourseIDS(RequestID, CourseID)
               - - - - - - - - -

RequestCourseIDS.RequestID references Request.Request.ID

addCreditHour(RequestID)
        - - - - - - - -

addCreditHour.RequestID references Request.RequestID
addCourse(RequestID)
        - - - - - - - - -

addCourse.RequestID references Request.RequestID

GraduationPlan(<u>GradID</u>, GradSemster, CreditHours,AdvisorID)
                                                                - - - - - - - - -
GraduationPlan.AdvisorID References Advisor.AdvisorID

Has(<u>StudentID,AdvisorID,semesterCode</u>)
    -
Has.StudentID references Student.StudentID
Has.AdvisorID references AdvisorID
Has.semsterCode references Semster.semsterCode

register(<u>CourseID,StudentID,ExamID</u>)
        -
register.CourseID references Course.CourseID
register.StudentID references Student.StudentID
register.ExamID references MakeUpExam.ExamID

teaches(<u>InstructorID,SlotID,CourseID</u>)
        -
teaches.InstructorID references Instructor.InstructorID
teaches.SlotID references Slot.SlotID
teaches.CourseID references Course.CourseID