Student:

The status of the student (blocked or unblocked) should be

represented using bit data type. if the student does not pay the installment by the deadline, the student will be blocked and unable to log in to the system.

▪ For students, 0 means blocked and 1 means unblocked.

Constrains:

Assigned hours means the total credit hours that the student is allowed to take in the current semester. The student has assigned hours if the student missed course(s) is offered in the current semester (should be NULL otherwise).

The grade will be null if the student is still taking the course. If he/she took the course, a value should be assigned to the grade.

Request:

The status of any sent request can either be ‘pending’

(default), ‘accepted’ or ‘rejected’

Add credit hours to the assigned credit hours the student has. A student can only add hours if he/she is NOT under probation. A student can add up to 3 credit hours but must also be below the 34 credit hours threshold.

Makeup Exams :

The type of any Exam can either be ‘Normal’ (default),

‘First\_makeup’ or 'Second\_makeup'.

Courses:

is\_offered (if the course is offered in the current semester),

courses can only be offered during the odd or even semester.

The Offered attribute of the course should be represented

using bit data type

For Course, ‘0’ means course is not offered in the

current semester while ‘1’ means course is offered in

the current semester.

.Required courses: A course is considered required (according to a certain student) if it is unattended or failed.

▪ Failed course: Student failed in this course before and

is not eligible for the 2nd makeup.

▪ Unattended Course: A mandatory course from

previous semesters that the student did not take before

(Must be a course from a semester less than student’s

current semester).

● Optional Courses: courses from the current semester or

upcoming semesters (Student is allowed to take the optional

course if he/she satisfied their prerequisites).

● Missing courses: The courses remaining to be taken at any

semester in order for the student to graduate.

Payment :

The status of any Payment can either be 'notPaid' (default),or 'Paid'.

Instalments:

If the student has only one payment with no installments this means that number of installment attribute value should be ‘0’ not Null.

▪ Number of installments should be equals to the number

of months between the payment’s start date and the

payment’s deadline.

▪ The first installment’s start date equals to the payment

start date.

▪ The start date of each upcoming installment is equals to

the previous installment’s deadline.

▪ The deadline of each installment is a month from the

installment’s start date.

▪ Installment’s amount is equal to (payment amount /

total number of installments)

Summer:

Note that Summer semesters are optional. Winter semester represents an odd semester, Spring semester represents an even semester, summer round 1 represents an odd optional semester while summer round 2 represents an even optional semester

Graduation\_Plan:

Graduation\_Plan (plan\_id, semester\_code, semester\_credit\_hours, expected\_grad\_semester, advisor\_id, student\_id)

HOW semester\_code is not FK