

Relational Schema

User(user_id)

Admin(user_id)

Supervisor(user_id,name,faculty,email)

Student(user_id,first_name,last_name,email,type,gpa,address,faculty,
sup_id)

.....
Student.sup_id *references* Supervisor

Student_mob_number(user_id,mob_number)

.....
Student_mob_number.user_id *references* Student

nonGUCian(user_id)

Course(course_id,code,creditHrs,fee)

take_course(stu_id,course_id,grade)

..... ..
take_course.stu_id *references* Student

take_course.course_id *references* Course

GUCian(user_id,undergrad_id)

Thesis(serialNo,title,type,field,startDate,endDate,seminarDate,
noOfExtensions,noOfYears,stu_id,pay_id,pay_completed)

Where: Thesis.noOfYears = Thesis.endDate – Thesis.startDate

Thesis.stu_id *references* Student

Thesis.pay_id *references* Payment

Defense(def_id,date,grade,location,serialNo,e_id)

Defense.serialNo *references* Thesis

Defense.e_id *references* Examiner

represent(stu_id,serialNo,def_id)

represent.stu_id *references* Student

represent.serialNo *references* Thesis

represent.def_id *references* defense

Examiner(e_id,name,field,nationality)

evaluate(e_id,def_id)

evaluate.e_id *references* Examiner

evaluate.def_id *references* Defense

Examiner_Defense_comments(e_id,def_id,comment)

Examiner_Defense_comments.(e_id,def_id) *references* evaluate

ProgressReport(prog_id,description,date,evaluation,progress_state)

fill(prog_id,stu_id,serialNo)

fill.prog_id *references* ProgressReport

fill.stu_id *references* Student
fill.serialNo *references* Thesis

Publication(pub_id,title,date,host,place,stu_id,accepted,pay_id)
Publication.stu_id *references* Student
Publication.pay_id *references* Payment

belongs(pub_id,serialNo)
belongs.pub_id *references* Publication
belongs.serialNo *references* Thesis

Payment(pay_id,totalAmount,fundPercent,noOfInstallments)

Installment(pay_id,ins_id,status,date,amount)
Installment.pay_id *references* Payment