German University in Cairo
Media Engineering and Technology
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Databases I, Winter 2023
"Modified Advising System"
Milestone 1 Relational Schema

Student (<u>student_id</u>, f_name, l_name, gpa, faculty, email, major, password, financial_status, semester, acquired_hours, assigned_hours, advisor_id.
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Where student.financial_status = (current_timestamp > Installment.deadline AND Installment.status = 1)

Student.advisor_id *references* Advisor.advisor_id

Student_Phone (<u>student_id, phone_number</u>)
               -
Student_Phone.student_id *references* Student.student_id

Course (<u>course_id</u>, name, major, is_offered, credit_hours, semester)

PreqCourse_course (<u>prerequisite_course_id, course_id</u>)
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PreqCourse_course.prerequisite_course_id *references* Course.course_id
PreqCourse_course.course_id *references* Course.course_id

Instructor (<u>instructor_id</u>, name, email, faculty, office)

Instructor_Course (course_id, instructor_id)

Instructor_Course.course_id *references* Course.course_id
Instructor_Course.instructor_id *references* Instructor.instructor_id

Student_Instructor_Course_Take (student_id, course_id, instructor_id, semester_code, exam_type, grade)

Student_Instructor_Course_Take.student_id *references* Student.student_id

Student_Instructor_Course_Take.course_id *references* Course.course_id
Student_Instructor_Course_Take.instructor_id *references* Instructor.instructor_id

Semester (semester_code, start_date, end_date)

Course_Semester (course_id, semester_code)

Course_Semester.course_id *references* Course.course_id
Course_Semester.semester_code *references* Semester_semester_code

Advisor (advisor_id, name, email, office, password)

Slot (slot_id, day, time, location, course_id, instructor_id)

Slot.course_id *references* Course.course_id
Slot.instructor_id *references* Instructor.instructor_id

Graduation_Plan (plan_id, semester_code, semester_credit_hours, expected_grad_semester, advisor_id, student_id)

Graduation_Plan.advisor_id *references* Advisor_advisor_id

Graduation_plan.student_id *references* Student.student_id

GradPlan_Course (plan_id, semester_code, course_id)

GradPlan_Course.plan_id *references* Graduation_Plan.plan_id
GradPlan_Course.semester_code *references*
Graduation_Plan. semester_code
GradPlan_Course.course_id *references* Course.course_id

Request (request_id, type, comment, status, credit_hours, student_id, advisor_id, course_id)

Request.student_id *references* Student_student_id
Request.advisor_id *references* Advisor_advisor_id

MakeUp_Exam (exam_id, date, type, course_id)

Make_Exam.course_id *references* Course.course_id

Exam_Student (exam_id, student_id, course_id)

Exam_Student.exam_id *references* MakeUp_Exam.exam_id
Exam_Student.student_id *references* Student_student_id

Payment(payment_id, amount, deadline, n_installments, status, fund_percentage, student_id, semester_code, start_date)

Payment.student_id *references* Student.student_id
Payment.semester_code *references* Semester.semester_code

Installment (payment_id, deadline, amount, status, start date)

Installment.payment_id *references* Payment.payment_id