

Exercise 8 – INLS 623

Practice for A5: Create a working XML schema for this example, and an XML document that abides by it. Use this example to help review how to map between ER diagram (relational schema) and XML schema. Divide class into groups (one for each entity, and one group for how to structure schema, ie. what is root...).

Faculty teaches courses (faculty teach no more than 3 courses maximum)

Course taken by students (students must take at least 1 course, but not more than 6 courses; courses must have at least 1 std)

Student advised by faculty (students must have exactly one advisor at all times; faculty advise any number of students, 0-N)

Faculty:

FID: University PID 9 digits

Office: text string 30 characters

Phone: local or long distance DDD-DDDD or (DDD)DDD-DDDD

office hours: multi-valued set of start, end day×

Course

coursename: text string 30 characters

courseID: text string 20 characters

location: text string 30 characters

time: multi-valued set of start, end day×

prerequisites: multivalued, list of courseIDs.

Students

SID: University PID 9 digits

Phone: local or long distance DDD-DDDD or (DDD)DDD-DDDD

mailing address: text string 60 characters

department: enumerated code {CS, SILS, Math, Biology, Nursing, English}

year: enumerated code (Freshman, Sophomore, Junior, Senior, Graduate)