Eitan Raitses CSC 423 Professor Aguiar Project Part 1

Assumptions

A major does not need to be declared by a student to be offered by a department

Every department has a chair

Departments must have one or more faculty

Faculty must work for only one department

Events must have at least one hosting department

Events hosted by multiple departments share the same eventID, with different deptIDs

A. Entity types

- a. Department
- b. Student
- c. Major
- d. Event
- e. Faculty

B. Relationship types

- a. Department offers Major
- b. Major references Department
- c. Department employs Faculty
- d. Faculty works for Department
- e. Student declares Major
- f. Major has Student
- g. Department hosts Event
- h. Event hosted by Department
- i. Student attends Event
- j. Event comprises Student

C. Multiplicity Constraints

- a. 1..*
- b. 1..1
- c. 1..*
- d. 1..1
- e. 1..*
- f. 0..*
- g. 0..*
- h. 1..*
- i. 1..*
- i. 1..*

D. Attributes

- a. Department
 - i. deptID
 - ii. deptName
 - iii. chairName
- b. Student
 - i. sID
 - ii. sInit
 - iii. sName
- c. Major
 - i. majorID
 - ii. majorName
- d. Event
 - i. eventID
 - ii. eventName
- e. Faculty
 - i. facultyID
- f. Department hosts Event
 - i. sDate
 - ii. fDate
- g. Department employs Faculty
 - i. numFaculty
- E. Candidate and primary key attributes (strong entity type only)
 - a. Department
 - i. deptID {PK}
 - b. Major
 - i. majorID {PK}
 - c. Student
 - i. sID {PK}
 - d. Faculty
 - i. facultyID {PK}
 - e. Event
 - i. eventID {PK}

F. E-R diagram

