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CS 331 - 011

Relationships:
Dean Relationship:
A college can have 1 dean
An instructor can be a dean at most for 1 college.

Department - Student Relationship:
A department can have 0 to many students , a student may have at most 1 department.

Dept – Instructor: → Chair
A department can chair 1 Instructor.
An Instructor can chair at most one department.

College – Dep: → Admins
~~A college can admin 0 to many departments, A department can admin 1 college.~~
A department is administered by exactly one college, and a college can administer 0 departments.

Instructor – Section: →Teaches
~~An Instructor can teach many sections.~~
~~A section can be taught by only one instructor.~~
An Instructor can teach 0 to many Sections. A section is taught by exactly one instructor.

Course – Section : → Secs
~~A course can have many sections.~~
~~A section may belong to 1 course.~~
A course can be sectioned in (can have) 0 to many sections. A section belongs to exactly one course.

Depart. To Course:
~~A department offers 1 course~~
~~A course offers many departments~~
A department offers 0 to many courses, a course is offered by exactly one department.

Dept – Instructor → Employs
~~A dept employs many instructors~~
~~An instructor can be employed my only one department~~.

A department can employ 0 to many instructors
An instructor can be employed by exactly one department.

College Entity has the following Attributes:
C Name → **key**
C office
C Phone

Instructors Entity has the following Attributes:
Id →**key**
Rank
IName
ioFFICE
iPhone

Department Entity has the following Attributes:

D Name
DCode
DOffice
Dphone
—DName, DCode → both keys → ~~Composite keys~~ →Primary keys

Course Entity has the following Attributes:
CCode
Credits
CoName
Level
CDesc

–CoName,CCode → both keys→ ~~Composite keys~~ →Primary keys

Student Entity has the following Attributes:
Sld → **key**
FName
MName
Sname →Composite attribute because of (Fname, Mname and Lname)
LName
ADDr
Phone
Major
DOB \

Section Entity has the following Attributes:

SecId → **key**

SecNo

Sem

Year

Croom →Composite attribute (Bldg,RoomNo)

RoomNo

Bldg

CRoom

DaysTime

Keys:

CName-> College attribute

Id → Instructor Attribute

DName, DCode → Dept Attribute

CoName,CCode → Course Attribute

SId→Student Attribute

SecId→Section Attribute