faculty_degree

Faculty (RN)  \( \ldots \)  deptcode_works_for (A)
Department (code)  \( \ldots \) rn_chairid (B)
AffiliatedWith (faculty_RN, deptcode) (C)
weak entity

\[ E \]

\[ A \rightarrow E \]

\[ 1:1 \]

X

\[ E \rightarrow Y \]

\[ 0...n \]

\[ B \rightarrow WE \]

\[ El(A, X) \]

\[ WE(B, A, Y) \]

The key B is not unique in the database.

But

B combined with the key of all strong entities it depends on is unique.

\((A, B)\) is unique and key to \(WE\).
Students (RIN, ...)  
Hobbies (Hobby)  
Student Hobbies (RIN, Hobby)
Buildings (abbr, name, lat, long)
Rooms (building, roomno)
Section (rooms (cEN, abbr, roomno))
Dept (code, ....., abbr, roomno)
Students (RIN, ..)
Hobbies (RIN, hobby)

Faculty

Clubs

Phone

Mentors

RN
advises (studentID, major, code, facultyID, sinceWhen)
Courses (code) → Sections (sections, coursecode, capid)

Sections (sections) → Courses (code, coursecode, capid)
Hierarchies

covering hierarchy? if \( B \cup C = A \)

disjoint hierarchy? if \( B \cap C = \emptyset \)