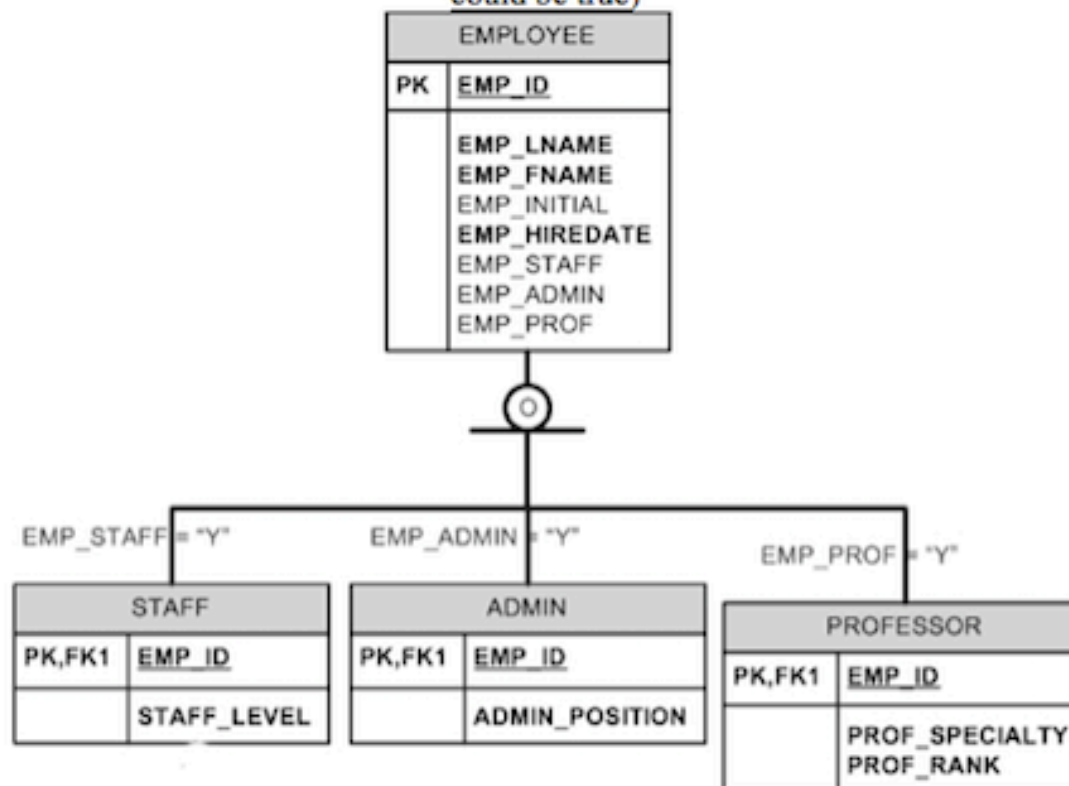


80. Which Relational operators can be applied to a pair of tables that are NOT union-compatible?

- a. Cartesian Product (Cross-Join)
- b. Natural Join
- c. Divide
- d. Both 'Select' and 'Project'
- e. (a), (b) and (c)

20. Given the following, specify which of the following (a,b,c,d or e) are true (more than one could be true)



- a. An employee may be a staff person, or an "admin" or a professor
- b. An employee cannot be anything other than a staff person, an "admin" or a professor
- c. An employee cannot be both a professor and an 'admin'
- d. An employee could be both an 'admin' and a staff person
- e. The 3 subtypes are required to have EMP_ID as their primary key.

81. If there were entity sets SURGEON and PATIENT, and if every patient was associated with exactly one surgeon, while a surgeon could have several patients, then:

- a. PATIENT would have a foreign key referencing SURGEON
- b. SURGEON would have a foreign key referencing SURGEON
- c. There must be a many-to-many relationship between the two entity sets
- d. Both (a) and (b) are true
- e. Both (a) and (b) are false.