

Some solutions for Assignment 6

- 4.6.2.a and 4.6.b have the same mapping in this case.

Person(name, addr)
Child(name, addr, motherName, motherAddr, fatherName, fatherAddr)
Father(fatherName, fatherAddr)
Mother(motherName, motherAddr)
Married(wifeName, wifeAddr, husbandName, husbandAddr)
childOf(childName, childAddr, parentName, parentAddr)

Foreign keys:

FK (name,addr) in Child references key (name,addr) in Person
FK (fatherName,fatherAddr) in Child references key (name,addr) in Person
FK (motherName,motherAddr) in Child references key (name,addr) in Person
FK (fatherName,fatherAddr) in Father references key (name,addr) in Person
FK (motherName,motherAddr) in Mother references key (name,addr) in Person
FK (wifeName,wifeAddr) in Married references key (motherName,motherAddr) in Mother
FK (husbandName,wifeAddr) in Married references key (fatherName,fatherAddr) in Father

I dropped 4.6.2.c from this problem set since we did not cover this in class.

- – 4.6.1 a

Department(name, chair)
Course(cdept,cnumber, room)
LabCourse(cdept,cnumber, computerallocation)

Foreign keys:

FK (cdept) in Course references key (name) in Department
FK (cdept,number) in LabCourse references key (cdept,number) in Course

- 4.6.1 b

Department(name, chair)
Course(cdept,cnumber, room)
LabCourse(cdept,cnumber, computerallocation,room,chair)

Foreign keys:

FK (cdept) in Course references key (name) in Department
FK (cdept,number) in LabCourse references key (cdept,number) in Course