Noemi Lemonnier
#40001085

ASSIGNMENT 2

QUESTION 1
The E/R diagram:
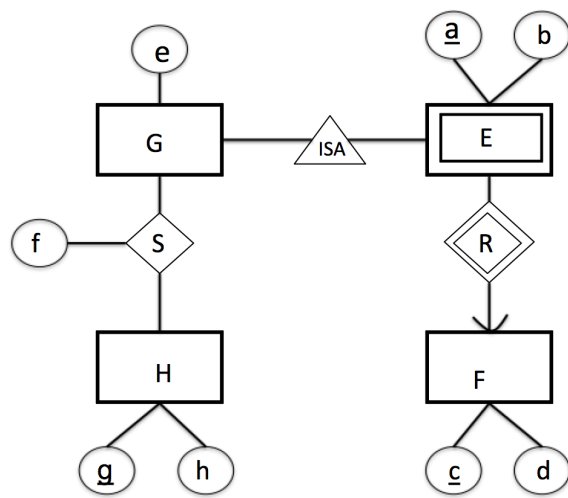
Converted into
1) E/R style
        E(a, b, c)
        F(c, d)
        G(a, c, e)
        S(a, c, g, f)
        H(g, h)

2) OO approach
        F(c, d)
        G(a, c, d, e, b)
        S(a, c, g, f)
        H(g, h,)

3) Null approach
        G(a, c, e, b)
        F(c, d)
        S(a, c, g, f)
        H(g, h)

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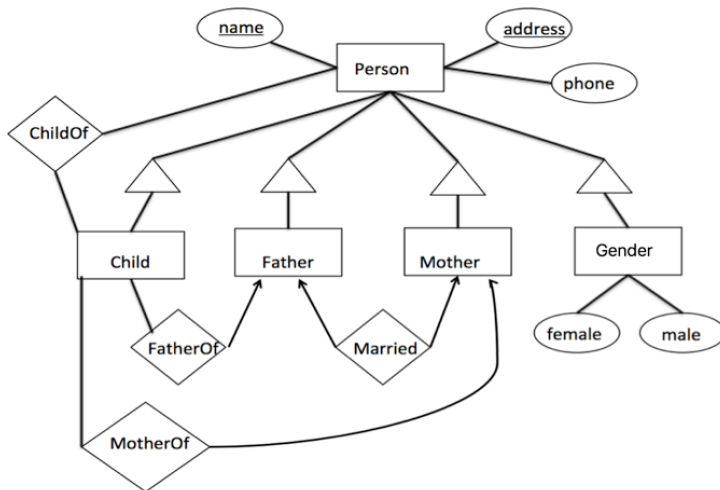#40001085

QUESTION 2

1)
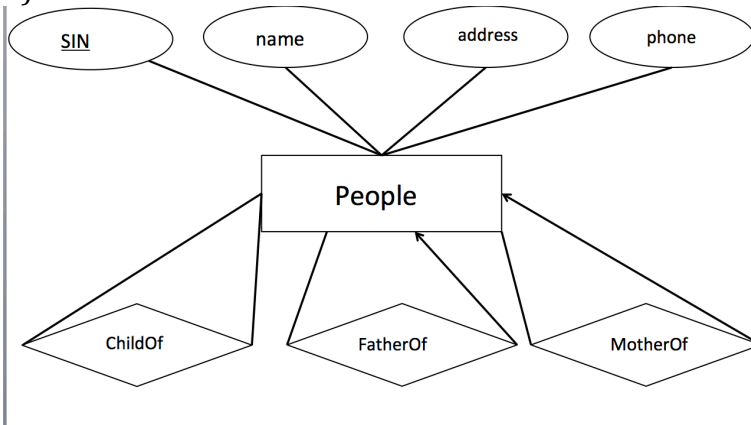
2)

People(<u>SIN</u>, name, address, phone)

ChildOf(childName, parentName)

FatherOf(fatherName, <u>SIN</u>)

MotherOf(motherName, <u>SIN</u>)

QUESTION 3

People(<u>name</u>, <u>address</u>)

Child(<u>name</u>, <u>address</u> , <u>childName</u>,)

Father(<u>name</u>, <u>address</u>, <u>fatherName</u>)

Mother(<u>name</u>, <u>address</u>, <u>motherName</u>)

FatherOf(<u>childName</u>, <u>fatherName</u>)

ChildOf(<u>name</u>, <u>address</u>,<u>childName</u>)

MotherOf(<u>childName</u>, <u>motherName</u>)

Married(<u>fatherName</u>, <u>motherName</u>)

Gender(<u>name</u>, <u>personAddress</u>, <u>female</u>,

<u>male</u>)

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QUESTION 4

Grade is a part of the key for enrolment.

QUESTION 5

Stars(<u>name</u>, addr)
Studios-of(<u>name</u>, addr)
Movies(<u>title</u>, <u>year</u>, length, genre)
Contracts(salary, <u>nameStars</u>, <u>nameStudios</u>, <u>title</u>, <u>year</u>)

QUESTION 6

a)
People(name, address)
Child(name, address , childName,)
Father(name, address, fatherName)
Mother(name, address, motherName)
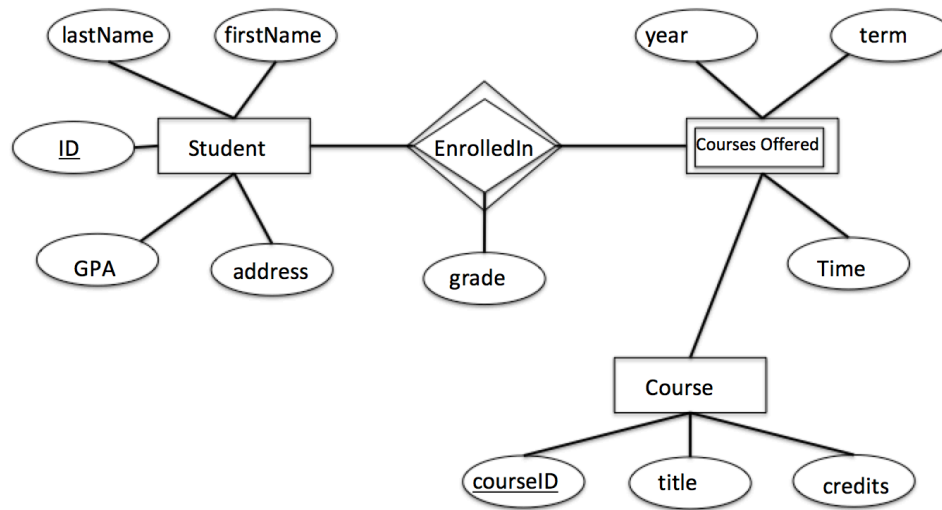**FatherOf**(childName, fatherName)
ChildOf(name, address, childName)
MotherOf(childName, motherName)
Married(fatherName, motherName)

b)
People(name, address)
Child(name, address , childName,)
Father(name, address, fatherName)
Mother(name, address, motherName)
FatherOf(childName, fatherName)
ChildOf(name, address, childName)
MotherOf(childName, motherName)
Married(fatherName, motherName)

c)
Person(name, address, childName, fatherName, motherName)
FatherOf(childName, fatherName)
MotherOf(childName, motherName)
Married(fatherName, motherName)