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MGS 404 – Fall 2016

Homework 5 & 6 – Due 11/16 before 5:00pm

Total Points: 60

Important Note: Referring to the answers to these questions posted online and/or submitting such work will not be tolerated. Such incidents will be subject to the maximum penalty applicable according to the SUNY Buffalo Code of Ethics. For more information, please refer the “Student Conduct and Discipline” and “Academic Integrity” section in your syllabus.

Assignment 5

(30 Points)

For this assignment you can draw legible diagrams with a pen. It is not necessary to use a computer tool for drawing your EER diagrams. Please submit a hard copy.

Exercise 1: (15 points)

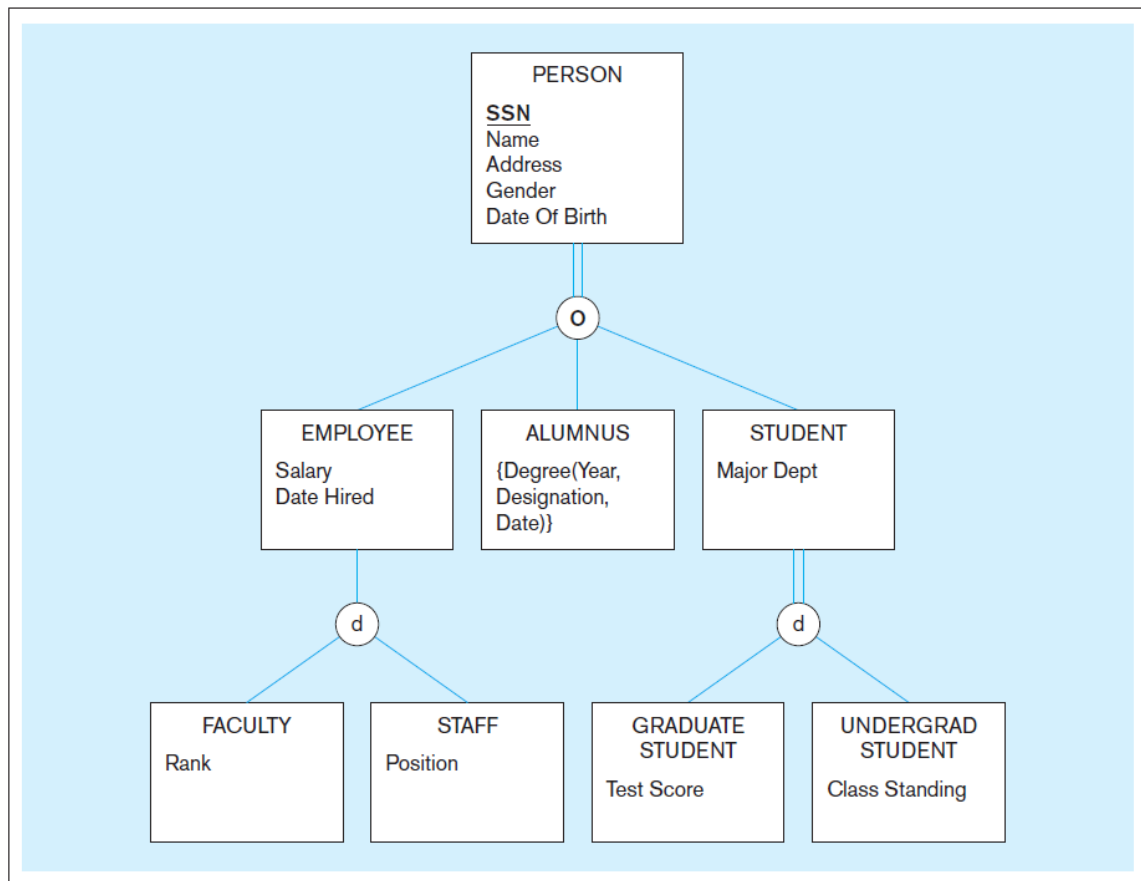
A nonprofit organization depends on a number of different types of persons for its successful operations. The organization is interested in the following attributes for all of these persons: SSN, Name, Address, City/State/Zip, and Telephone. Three types of persons are of greatest interest: employees, volunteers, and donors. Employees have only a Date Hired attribute, and volunteers have only a Skill attribute. Donors have only a relationship (name Donates) with an Item entity type. A donor must have donated one or more items, and an item may have no donors, or one or more donors.

There are persons other than employees, volunteers, and donors who are of interest to the organization so that a person need not belong to any of these three groups. On the other hand, at a given time, a person may belong to two or more of these groups (e.g., employee and donor).

Draw an EER diagram for the above problem. Add a subtype discriminator (name Person Type) to the diagram you created.

Exercise 2: (15 points)

For simplicity, subtype discriminators were left off in the figure listed below. So, redraw the diagram. Add subtype discriminator notation. If necessary, create a new attribute for the discriminator.



Assignment 6 **(30 Points)**

For this assignment you have to use MySQL Workbench to draw your ER diagrams. Your diagrams should be submitted as a hard copy.

Exercise 1: (30 points)

Chapter 2 - Problems and Exercises - Question 2-44: a, b

Bonus Question (15 Points)

Chapter 2 - Problems and Exercises - Question 2-44: c

Note: If you are attempting this question you need to draw a new ER diagram using MySQL Workbench.



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