**IS 441 Homework 1 Help – Defining Entity; Stating Business Rules; Biz-Rule and ERD**

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**I. Defining Entity (Retyping our in-class exercise)**

Entity: The conference of a professional association.

Definition:

* A formal gathering
* Of the members of an association of a defined profession
* In a pre-selected venue
* Usually held in a fixed time in the year
* To exchange and discuss the important developments in the profession (including issues, research findings, trends, training for professional development, etc.)

[What – Who – Where – When – Why (purpose)] (Those are components for an event; not for persons or objects)

II. Statement of Business Rules

Somewhat continuing on the above topic: PROFESSIONALs attend professional organization’s CONFERENCEs, and may submit and present PAPERs on the CONFERENCE. These professionals have their respective AFFILIATIONs (college or company they are working for).

Rules:

1.1 Each professional can attend many conferences, or none;

1.2 Each conference must have at least 50 professionals attending.

2.1 Each conference must have at least 20 papers presented;

2.2 Each paper may be presented on not more than one conference.

3.1 Each professional may submit many papers, or none;

3.2 Each paper must be submitted by at least one professional, up to five.

4.1 Each professional has one and only one affiliation;

4.2 Each affiliation must have at least 10 professionals.

Please note my numbering of “1.1, 1.2; 2.1, 2.2…” since the “1.x, 2.x, 3.x, 4.x” are four relationships, each needs to be stated with TWO rules (y.1, y.2).

If the above rules are accepted, then the ERD should be like the following:

50

PROFESSIONAL

AFFILIATION

CONFERENCE

10

20

PAPER