E-R DIAGRAMS

ASSIGNMENT DESCRIPTION:

Draw an E-R Diagram for each of the following situations. (If you believe that you need to make additional assumptions, clearly state them for each situation.) Draw each of the following 2 situations using the tools you have studied in chapter 6.The concepts for the E-R diagram from the text and from the posted video are the same; however, the graphical symbols different somewhat. You may use either symbol set.

Situation 1: (8 points)

A company has a number of employees. The attributes of EMPLOYEE include Employee ID (identifier), Name, Address, and Birthdate. The company also has several projects. Attributes of PROJECT include Project ID (identifier), Project Name, and Start Date. Each employee may be assigned to one or more projects or may not be assigned to a project. A project must have at least one employee assigned and may have any number of employees assigned. An employee's billing rate may vary by project and the company wishes to record the applicable billing rate (Billing Rate) for each employee when assigned to a particular project.

Situation 2: (8 points)

A book is identified by its ISBN number, and it has a title, a price and a date of publication. It is published by a publisher, which has its own ID NUMBER and a name. Each book has exactly one publisher, but one publisher typically publishes multiple books over time. A book is written by one or multiple authors. Each author is identified by an author number and has a name and date of birth. Each author has either one or multiple books.

For this situation, you must create the identifiers for the attributes listed. Be sure to use the guidelines for creating good identifier names.

Situation 3: (9 points)

Create an E-R diagram for the database from Assignment #4.

You may complete the diagrams in electronic format such as Word, PDF, etc. or you can draw the diagram by hand and scan it. It must be uploaded to Canvas. If you elect to draw by hand, please make it legible so that it can be graded.

REQUIREMENTS:

- ➲ Each student must work independently on this assignment. No group work is allowed.
- ➲ The total point value of the assignment is 25 points
- ➲ As stated above, complete the assignment electronic format.
- ➲ Submit complete work into Canvas.
- ➲ Take a screenshot of the submission verification in the event you need proof of submission if needed.