Your assignment is to read the following scenarios, then create correct and proper EER diagrams that accurately model the scenario as presented. You may make any REASONABLE assumptions, but these MUST BE STATED. Your models should fully elaborate any composite attributes, etc. The assignment is worth 30/175 homework points (i.e. 3% of the course mark). However, you can rest assured that EERD questions of similar difficulty will appear on your mid-term examination so do try to do your best on these.

This assignment is an individual assignment – you are to do it yourself, only receiving help from the instructor.

**EERDs**

1) Farmer brown wants to track information about all of his animals. He wants to know such things as how many eggs per day each chicken lays, how much milk each cow produces, what color of wool each sheep grows and the weight of each animal. Farmer Brown also wants to know the gender of each animal and its age.

2) You are working for a large country club. This country club wants to keep a database on its members and their guests. For each member they keep contact information, name and membership number. When you join this club you can join as a social member (which allows you 2 rounds of golf a year, privileges to the swimming pool and weight room), a tennis member (which allows you all the privileges of a social member as well as use of the tennis courts and 4 rounds of golf), or a golfing member (which allows you all the privileges of a tennis member and use of the golf course). This database needs to track how often a member (who has limited use of the golf course) has used the golf course, and how many guests the member has brought to the club. The club also wants to attract new members by mailing all those who came to the club as guests and live in the state. They also want to track all people who have visited the club as perspective members but have not joined yet.

3) You are an insurance salesperson. You sell life, home and auto insurance. You want to track the necessary information for each type of insurance as well as Client information. Think broadly about this EERD how would you design it to track the various forms of insurance you sell and the range of customers you service (note: some will purchase life, home and auto while others may only purchase one of the insurance products you offer).

4) Flyer Solutions is a retail store specializing in computer software products. The manager of the store is interested in tracking customer and order information. There are three types of customers who purchase products from Flyer Solutions. These customers are companies, universities, and government agencies. Customer number, address, and credit rating is maintained for customers. Further, government agencies have exemption codes. Order information includes order number, date, and required delivery date. Flyer Solutions negotiates with each University to create a contract that results in a discount percent that is determined based on a variety of factors (none of which you need to track, however you did need to know the discount percent associated with each university).