

Edith and Earl, owners of the Double E Farm, want you to build a database. Cousin Jed, a CS minor at an unnamed university, produced the following ER diagram for them. What changes do you think need to be made? A brief description of the situation is listed below. After you create the ER diagram, build the database schema and put the schema into 3NF.

Each employee has been trained on at least one type of equipment: a tractor, combine, thresher, or baler. Training is only valid for 2 years, then the employee needs to be retrained. Each employee has a manager who is also an employee at the farm. Each piece of equipment is maintained by a particular employee. Crops are planted in fields and are planted and harvested on particular days. These days change from year to year. Each crop is sold at the co-op for some price, which changes each year as well. Crops have a crop type: grain, vegetable, legume, fruit. Fields can contain only one crop each season, but throughout the year can contain multiple crops. A crop can be planted in multiple fields in the same season.

