Answer to Activity 1

The rule for first normal form is to remove any attributes or groups of attributes that occur more than once for a single occurrence of the entity. The repeating group of attributes that describe each item included in the activity is separated out into the Activity entity.



The rule for second normal form is to evaluate all entities with concatenated keys to verify that all non-key attributes depend on the full concatenated key, not just part of the key. In this case there are no concatenated keys, so the model is considered to be in 2NF.

To place an entity in third normal for, the analyst must verify that the values of any non-key attribute do not depend on any other non-key attributes. For the Student entity, the Advisor Phone depends upon the Advisor Name. These attributes should be moved to an entity that just describes the advisor.

