Assignment for Module 6

The assignment for Module 6 provides practice using the Crow's Foot notation. I encourage you to use the ER Assistant or Visual Paradigm to complete the problems in module 6. Module 7 contains software demonstrations for both the ER Assistant and Visual Paradigm.

1. Basic Crow's Foot Notation Requirements

1. Draw an ERD containing the *LabVisit* and *Patient* entity types connected by a 1-M relationship from *Patient* to *LabVisit*. Choose an appropriate relationship name using your common knowledge of interactions between patients and lab visits. Define minimum cardinalities so that a patient is required for a lab visit. For the *Patient* entity type, add attributes *PatNo* (primary key), *PatLastName*, *PatFirstName*, *PatDOB* (date of birth). For the *LabVisit* entity type, add attributes for the *LVNo* (primary key), *LVDate*, *LVProvNo*, and optional *LVOrdNo* (for orders from physicians). If you are using a data modeling tool that supports data type specification, choose appropriate data types for the attributes based on your common knowledge.
2. Extend problem 1 with the *Lab* entity type connected by a 1-M relationship from *Lab* to *LabVisit*. Choose an appropriate relationship name using your common knowledge of interactions between labs and lab visits. Define minimum cardinalities so that a lab is required for a lab visit. For the *Lab* entity type, add attributes *LabNo* (primary key), *LabName*, *LabStreet*, *LabCity*, *LabState*, and *LabZip*. If you are using a data modeling tool that supports data type specification, choose appropriate data types for the attributes based on your common knowledge.
3. Augment your ERD from problem 2 with the *Specimen* entity type. For each specimen collected, the database should record a unique *SpecNo*, *SpecArea* (vaginal, cervical, or

endocervical), and *SpecCollMethod* (thin prep or sure path). You should also add a 1-M relationship from *LabVisit* to *Specimen*. A lab visit must produce at least one specimen. A specimen is associated with exactly one lab visit.

2. Submission

The submission requirements involve evidence that you draw the ERD for each problem. You will submit 3 documents with each document containing an ERD drawing. You should use the same names for entity types and attributes as specified in the assignment. You should not put any identifying details about yourself in your submitted document.