**Prof Rudowsky Homework 2 CISC3810**

14. Create a Crow’s Foot ERD to include the following business rules for the ProdCo company:

1. Each sales representative writes many invoices.
2. Each invoice is written by one sales representative.
3. Each sales representative is assigned to one department.
4. Each department has many sales representatives.
5. Each customer can generate many invoices.
6. Each invoice is generated by one customer.

15. Write the business rules that are reflected in the ERD shown in Figure P2.15. (Note that the ERD reflects some simplifying assumptions. For example, each book is written by only one author. Also, remember that the ERD is always read from the “1” to the “M” side, regardless of the orientation of the ERD components.)

FIGURE P2.15 The Crow’s Foot ERD for Problem 15



16. Create a Crow’s Foot ERD for each of the following descriptions. (*Note*: The word *many* merely means “more than one” in the database modeling environment.)

a. Each of the MegaCo Corporation’s divisions is composed of many departments. Each of those departments has many employees assigned to it, but each employee works for only one department. Each department is managed by one employee, and each of those managers can manage only one department at a time.

* 1. During some period of time, a customer can rent many videotapes from the BigVid store. Each of the BigVid’s videotapes can be rented to many customers during that period of time.