CO532 Class 2 – Conceptual Data Modelling

1. For each relation, determine whether it is 1-1, 1-\*, \*-\*. Justify your choice.
   1. Zero to many Engineers work on one to many projects.
   2. One or many projects is managed by zero to one managers.
2. ER Diagrams:
   1. Department 1..4 is part of 1..1 Company
   2. Department 1..1 employs 3..\* employees
   3. Employee 1..1 has 0..\* dependants
   4. Employee 1..1 may have 0..1 employment history
3. Question 2 in one diagram (see paper)
4. Database: (see paper)
   1. Book:
      1. Title
         1. May not be unique
      2. Authors
      3. Date of publication
         1. Month and year
      4. The number of copies
      5. Acquisition price
      6. Selling price
   2. Authors
      1. Name
      2. Date of birth
      3. Other relevant information
   3. Books
      1. Displayed in sections
         1. Name describing subject of section
         2. Size (surface area)
         3. Staff supervising (1 or more members)
5. Coverage properties