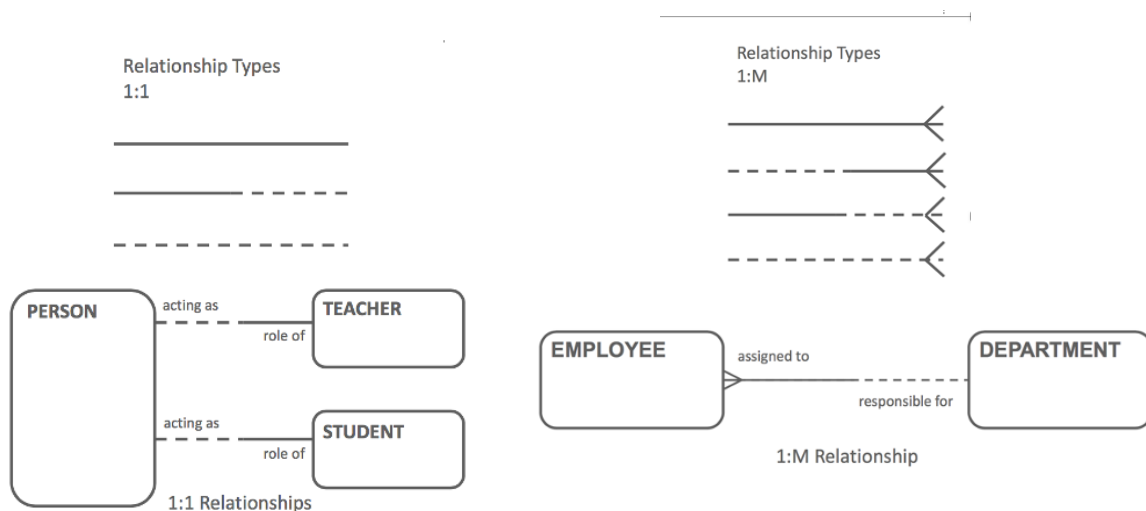
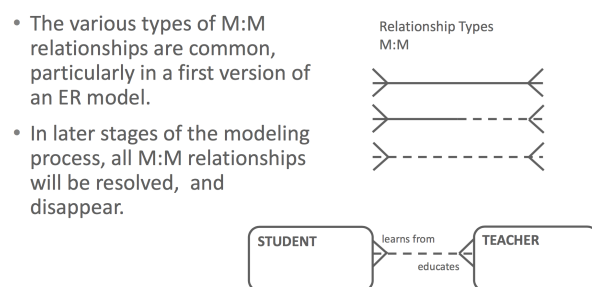


## Week-3 Summary

- Recursive relationship: A relationship can join one entity to itself. Like Manager is also an employee
- Non-Transferable relationship: A relationship which can not be transferable like STUDENT-RECEIPT. Represented by a small diamond
- One-to-One (1:1) Relationships: Just a few of the various types of 1:1 relationships



- One-to-Many (1:M) Relationships: The various types of 1:M relationships are most common in an ER Model
- Many-to-Many (M:M) Relationships:



- Matrix Diagrams: To ensure that we have not missed any relationships
- Three subtype rules:
  - Subtype must be a kind of supertype
  - Exhaustive: Every instance of the supertype is also an instance of one of the subtypes. All subtypes are listed without omission.
  - Mutually Exclusive: Each instance of a supertype is an instance of only one possible subtype.