

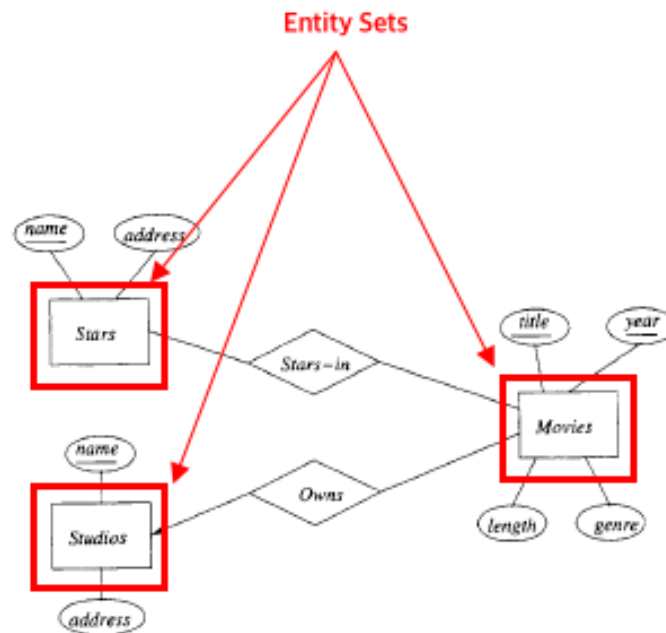
CSC343 Worksheet 14 Solution

July 7, 2020

1. Notes:

- E/R Model

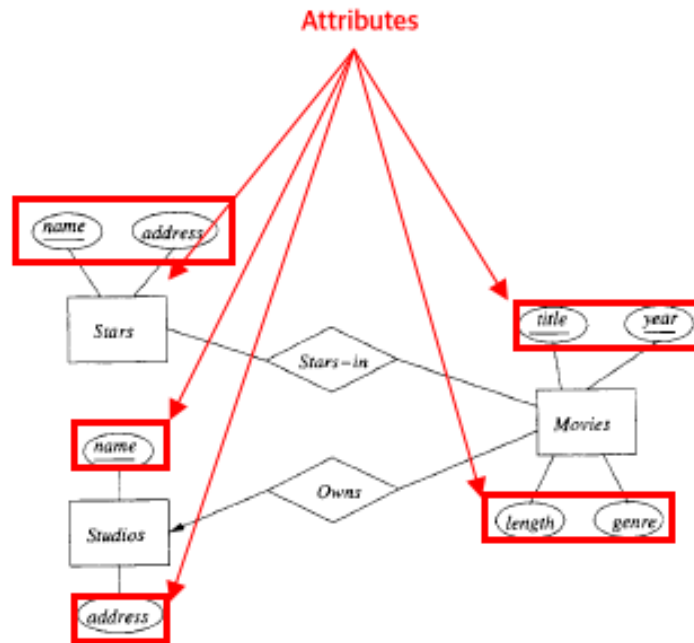
- Means **Entity Relationship Model**
- Entity Relationship Model(ER Modeling) is a graphical approach to database design.
- Is comparable to class diagram in UML
- Uses three principle element types:
 1. Entity sets
 - * Is an abstract object of some sort (i.e. entity)
 - * Is not used to represent class
 - * Is represented by rectangles



2. Attributes

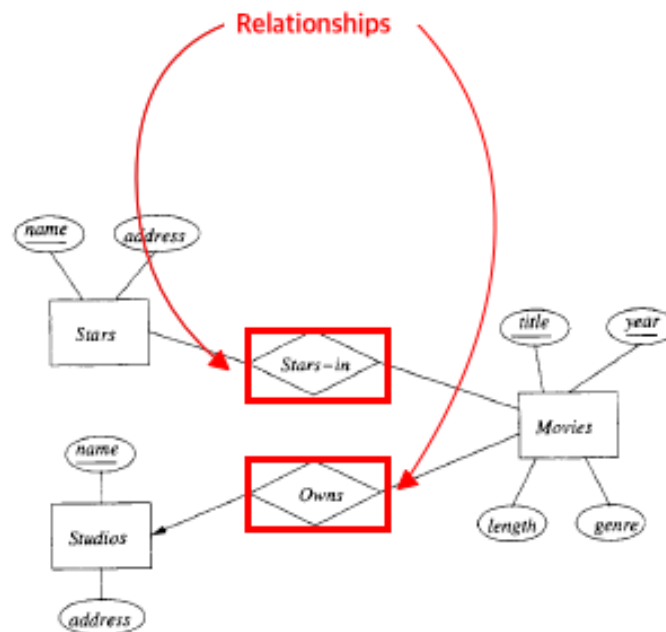
- * Are properties of entities in a set (i.e. column name)

- * Each has its own primitive data types (e.g. String, integers, Reals)
- * Is represented by ovals

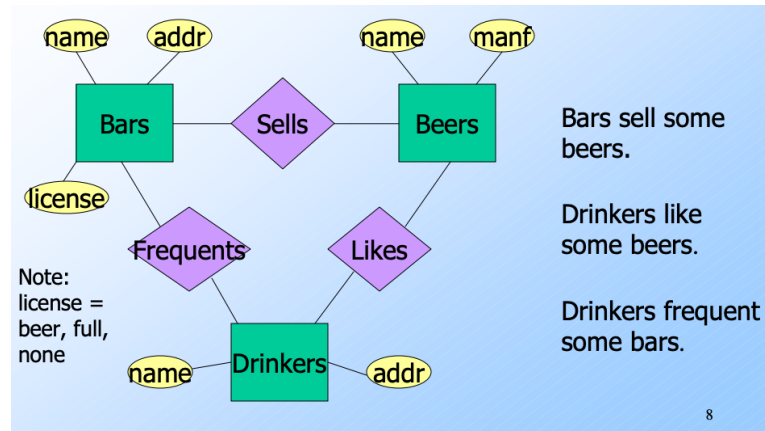


3. Relationships

- * Are connections among two or more entity sets (e.g. intermediary Relations like Stars In)
- * Is represented by diamond



Example:



- Multiway Relationships

- Connects more than two relationship sets
- Enables to represent relationships that otherwise is difficult in binary relationship
- Arrow \rightarrow 'one'
- No arrow \rightarrow 'many'

Example:

