

ER Model

CS460: Introduction to Database Systems

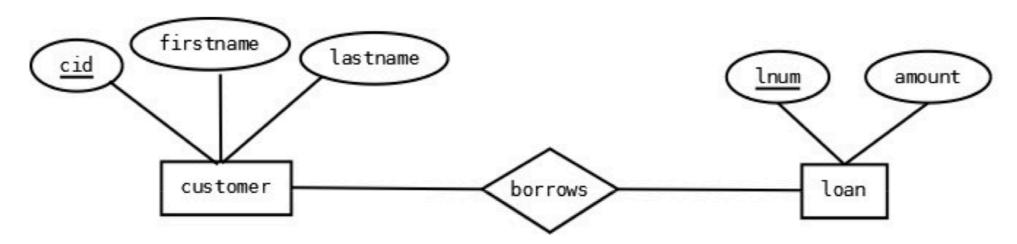
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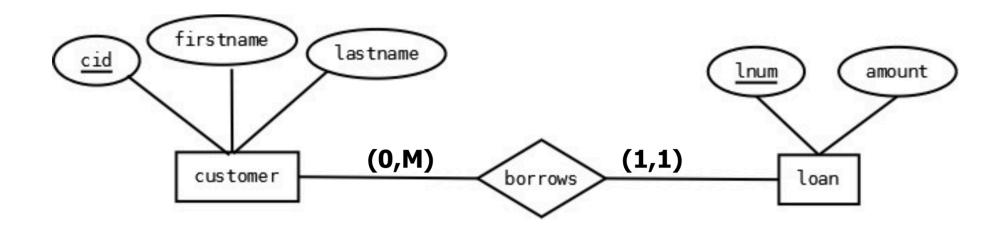


ER Diagrams



- Entity(Rectangle): An Entity is a thing or object in real world that is distinguishable from surrounding environment. They have a primary key, distinguishing each occurrence of the entity.
- Relationships(Diamond): Relationships are associations between or among entities.
- Attributes(Oval): Attributes are characteristics of an entity, a many-to-many relationship, or a one-to-one relationship. Underlined attributes indicate primary keys.

Ordinality and Cardinality



- Ordinality is the minimum number of times an instance in one entity can be associated
 with an instance in the related entity.
- Cardinality, on the other hand, refers to the maximum number of times an instance in one
 entity can relate to instances of another entity.



Exercise

go to https://www.draw.io