ER Diagram Conventions

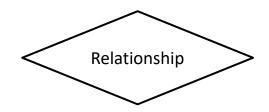
Components

Entity

An entity is an object that is distinguishable from other objects.



An entity is represented by a set of attributes.



A relationship between two or more entities can be possible.

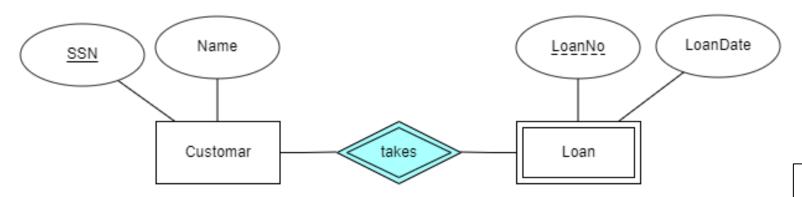
Components

Weak Entity

A weak entity has no primary key, cannot be identified on their own, depends on another entity.



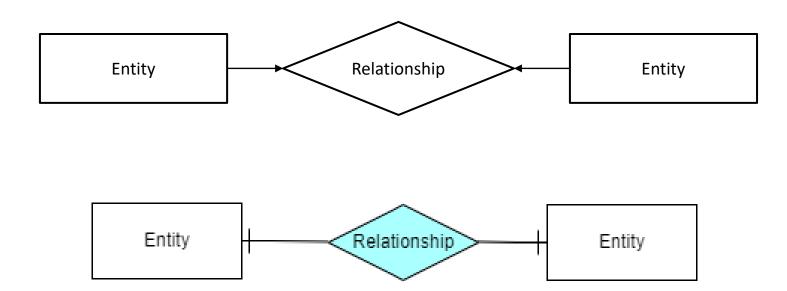
An identifying relationship between a weak entity and a owner entity.



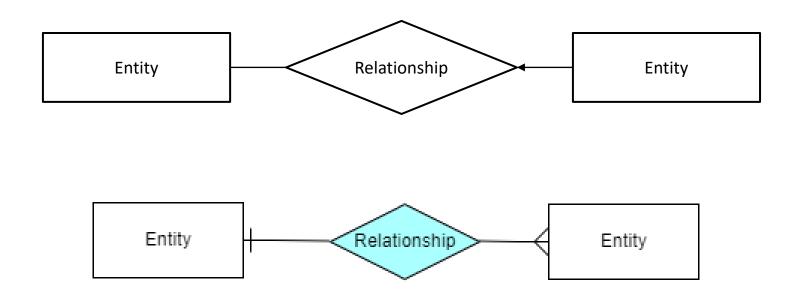
Customer: Owner entity

Loan: Weak entity

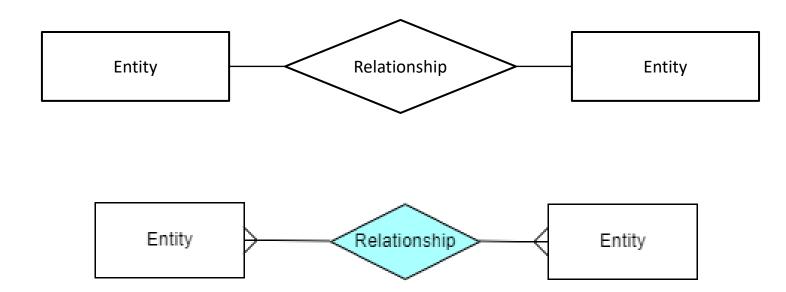
Key Constraints: One-to-one relationship



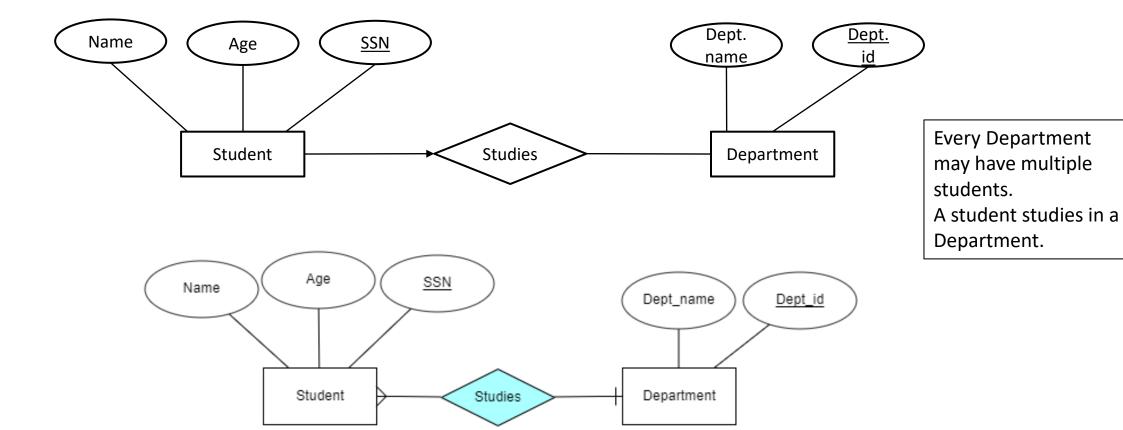
Key Constraints: One-to-many relationship



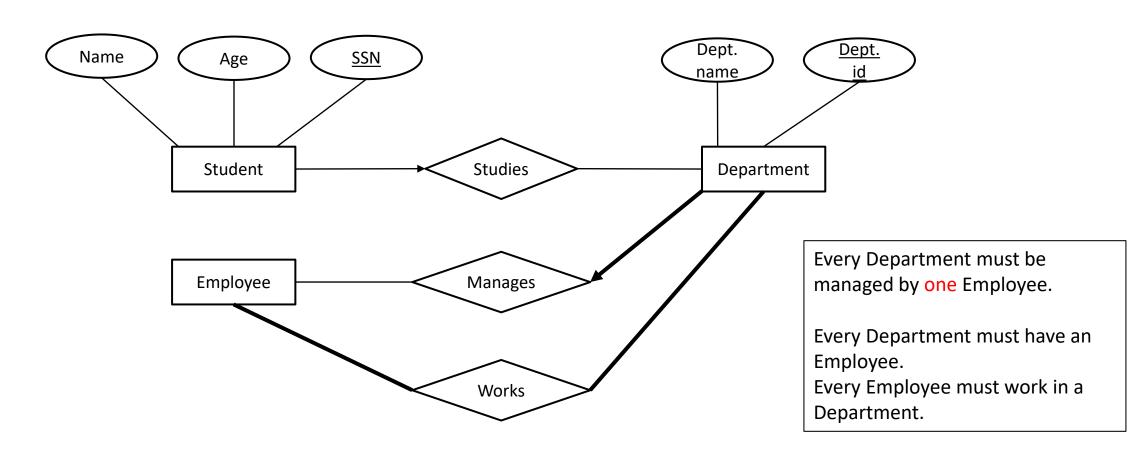
Key Constraints: Many-to-many relationship



ER Diagram: Example



Participation Constraints: Example



Participation Constraints: Example

