

ER Diagrams Intro

Entity - An object we want to model & store information about

Student

ER = Entity Relationship

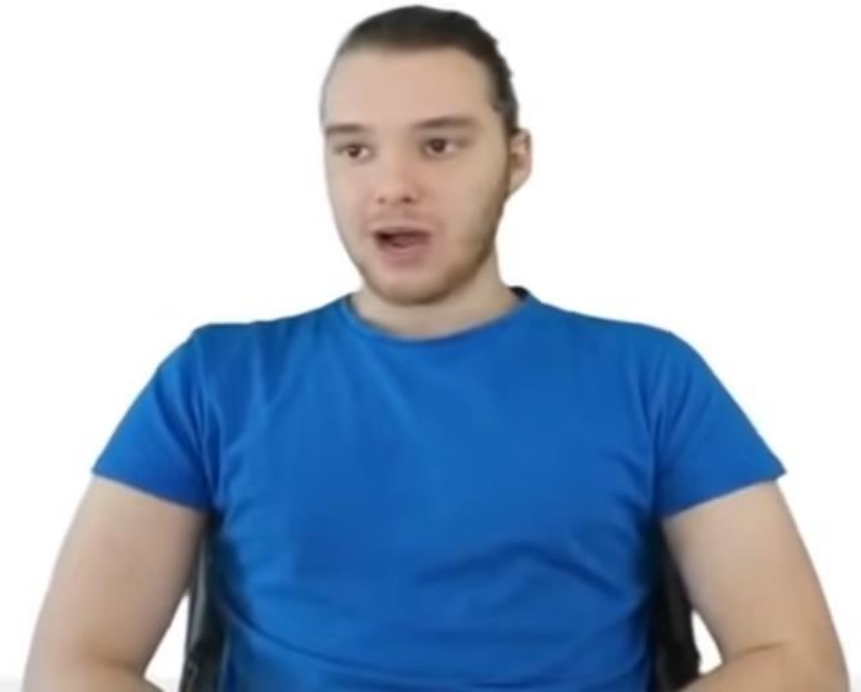
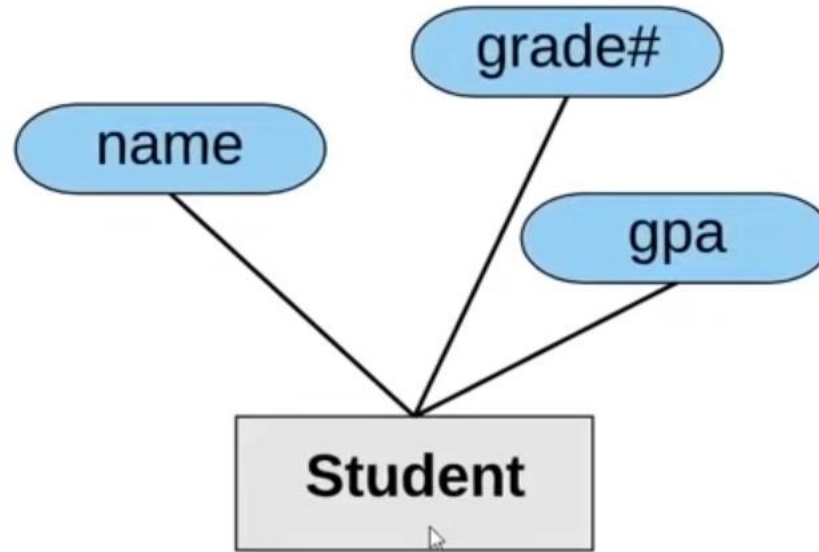


Entity - An object we want to model & store information about

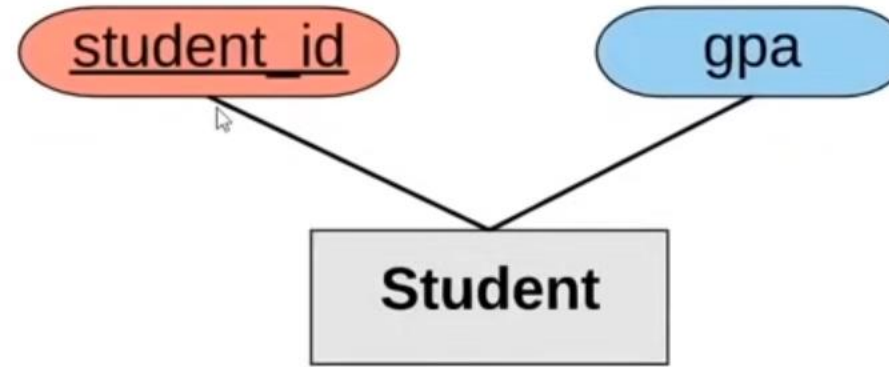
Student



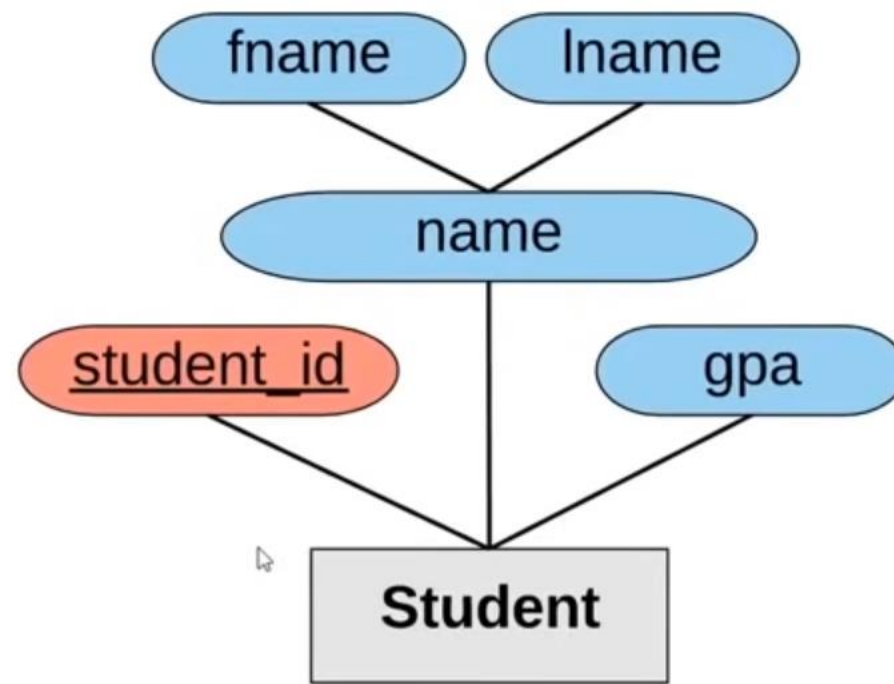
Attributes - Specific pieces of information about an entity



Primary Key - An attribute(s) that uniquely identify an entry in the database table



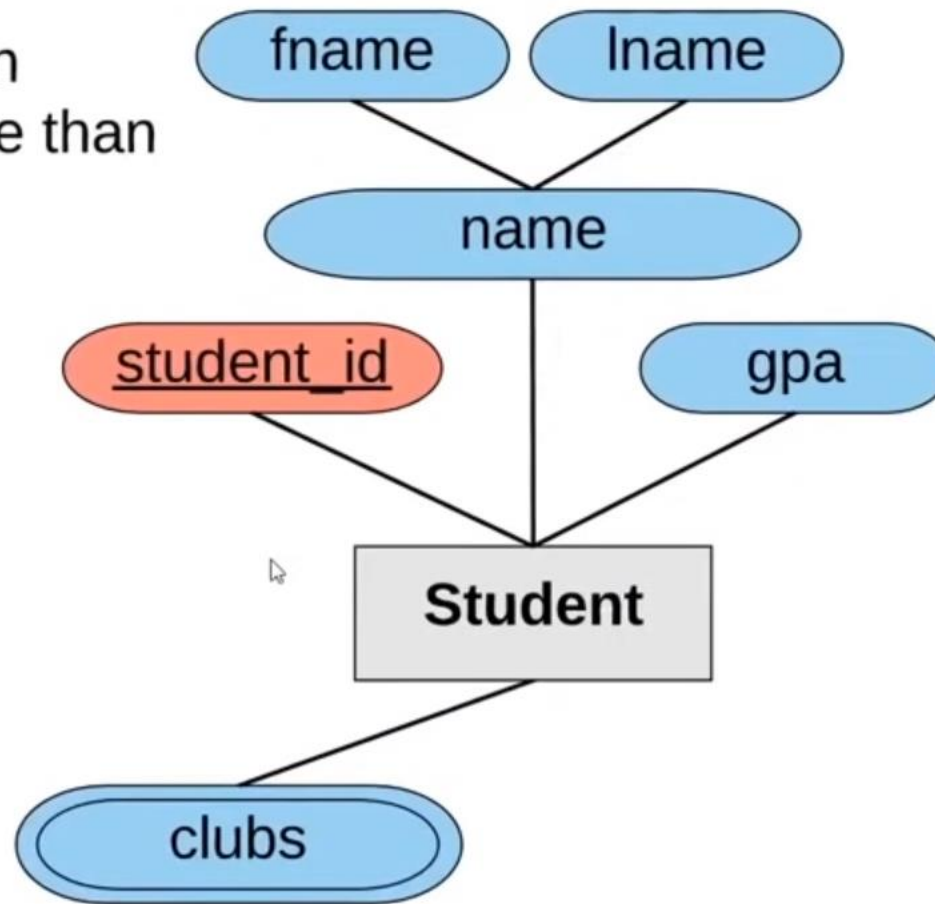
Marked with underline



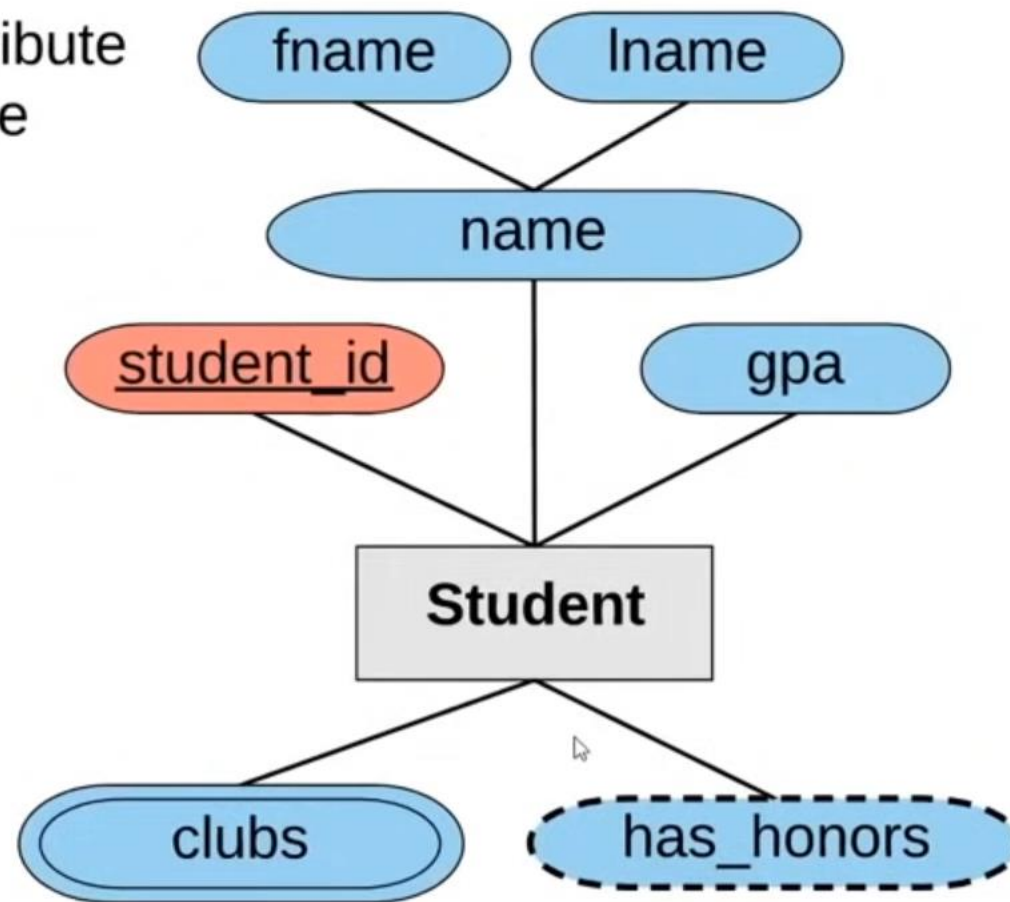
Composite Attribute - An attribute that can be broken up into sub-attributes



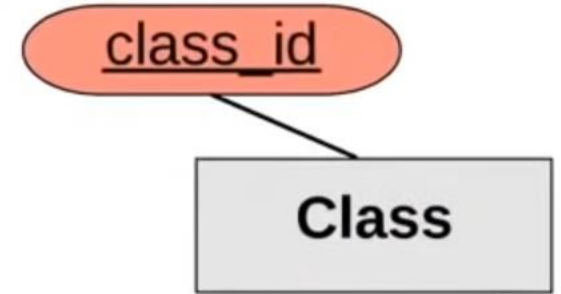
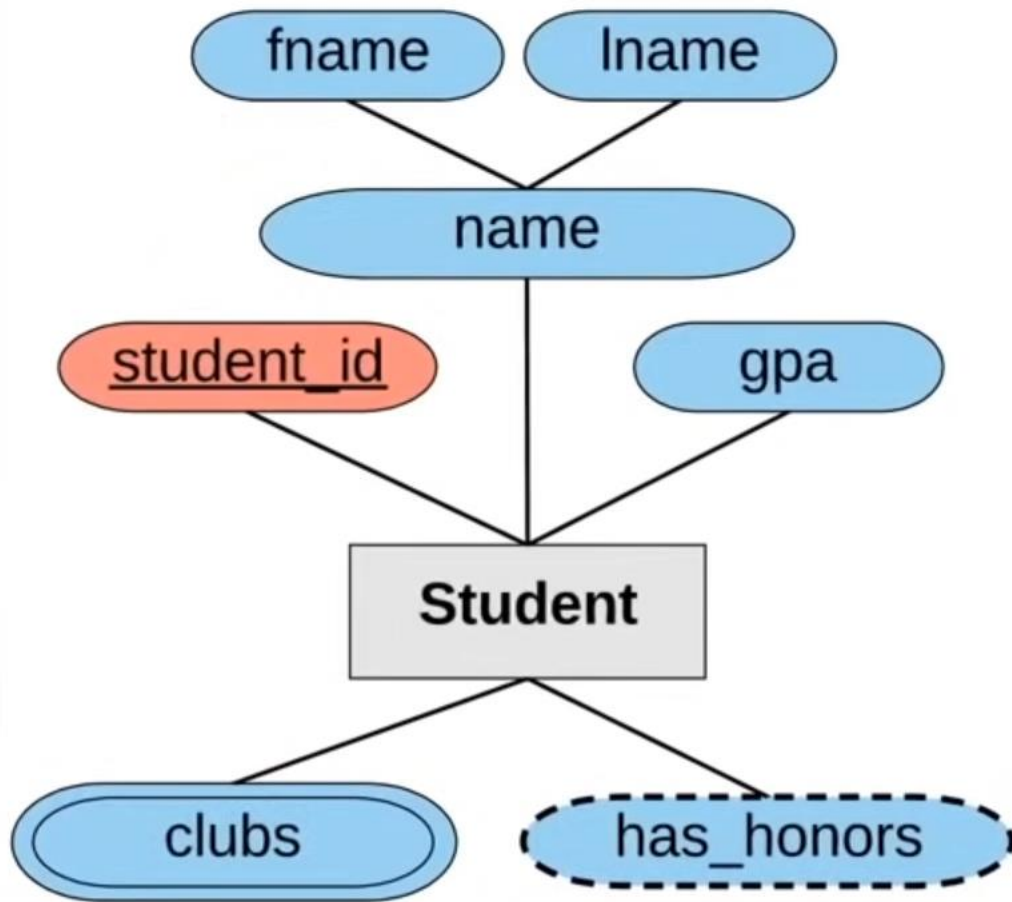
Multi-valued Attribute - An attribute that can have more than one value

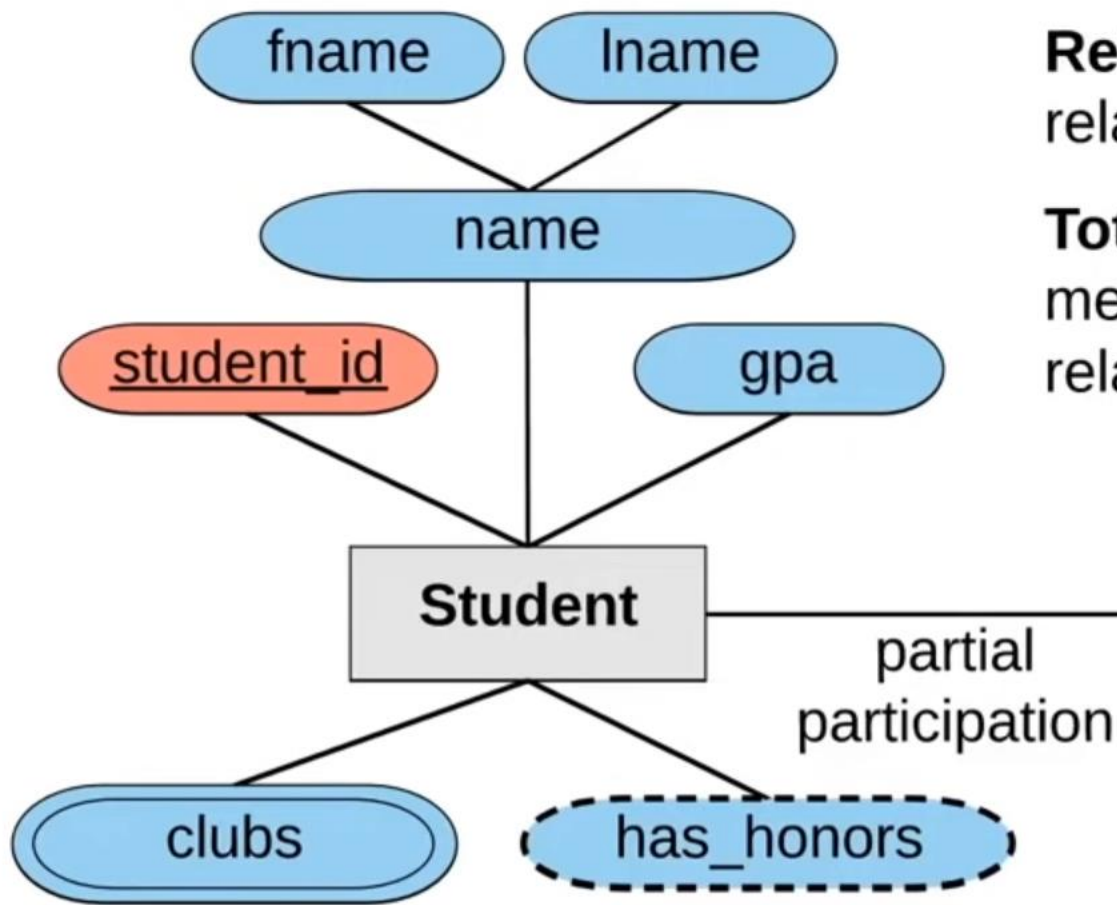


Derived Attribute - An attribute that can be derived from the other attributes



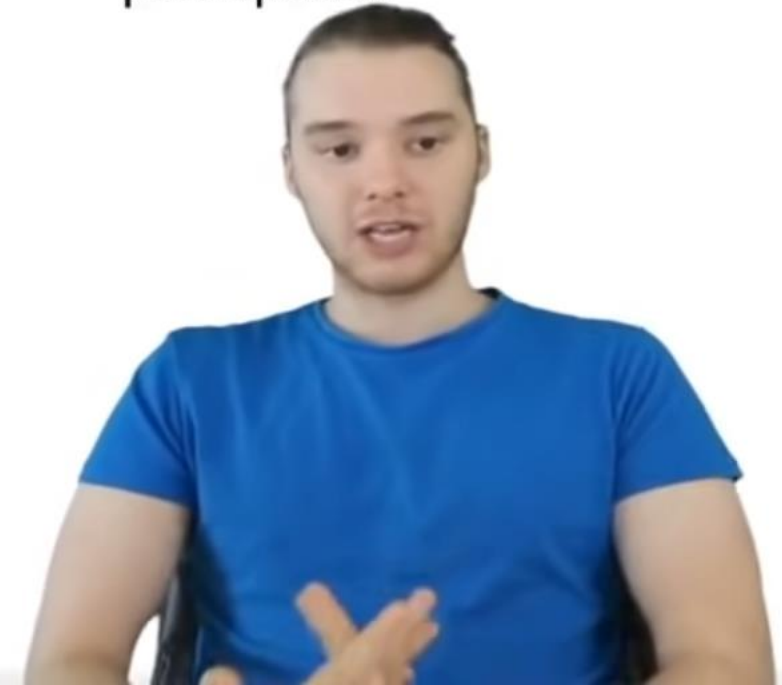
Multiple Entities - You can define more than one entity in the diagram



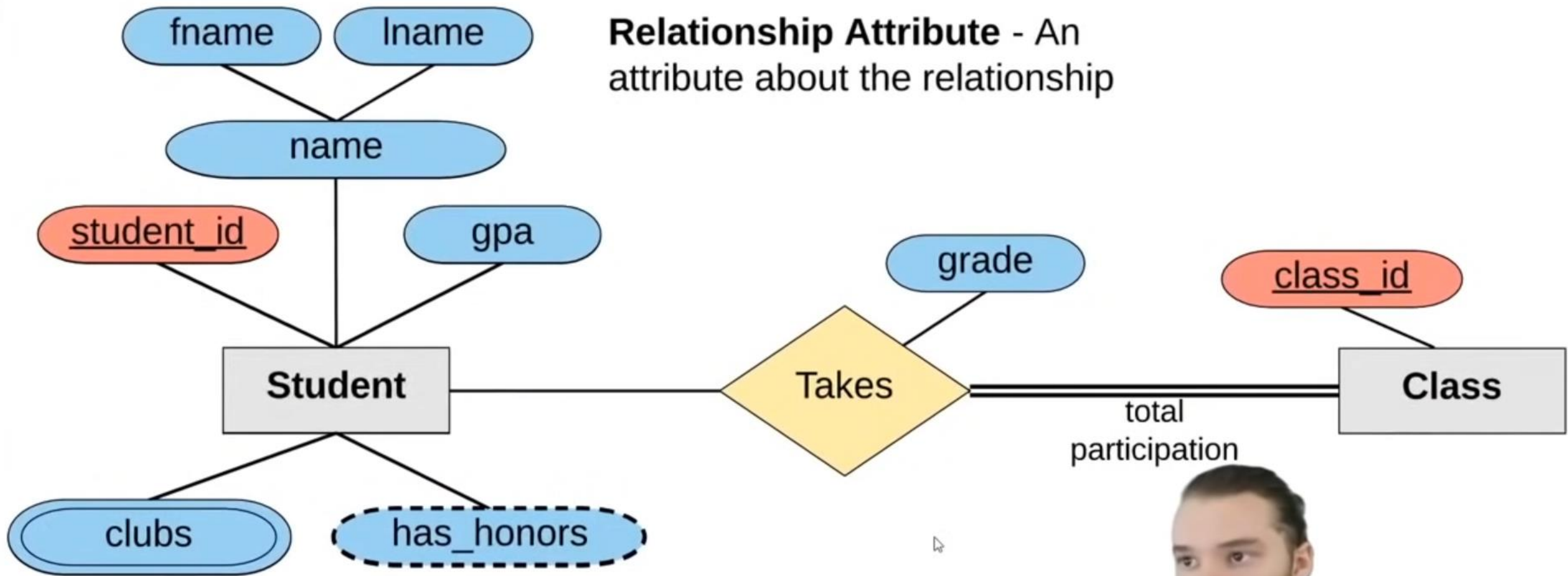


Relationships - defines a relationship between two entities

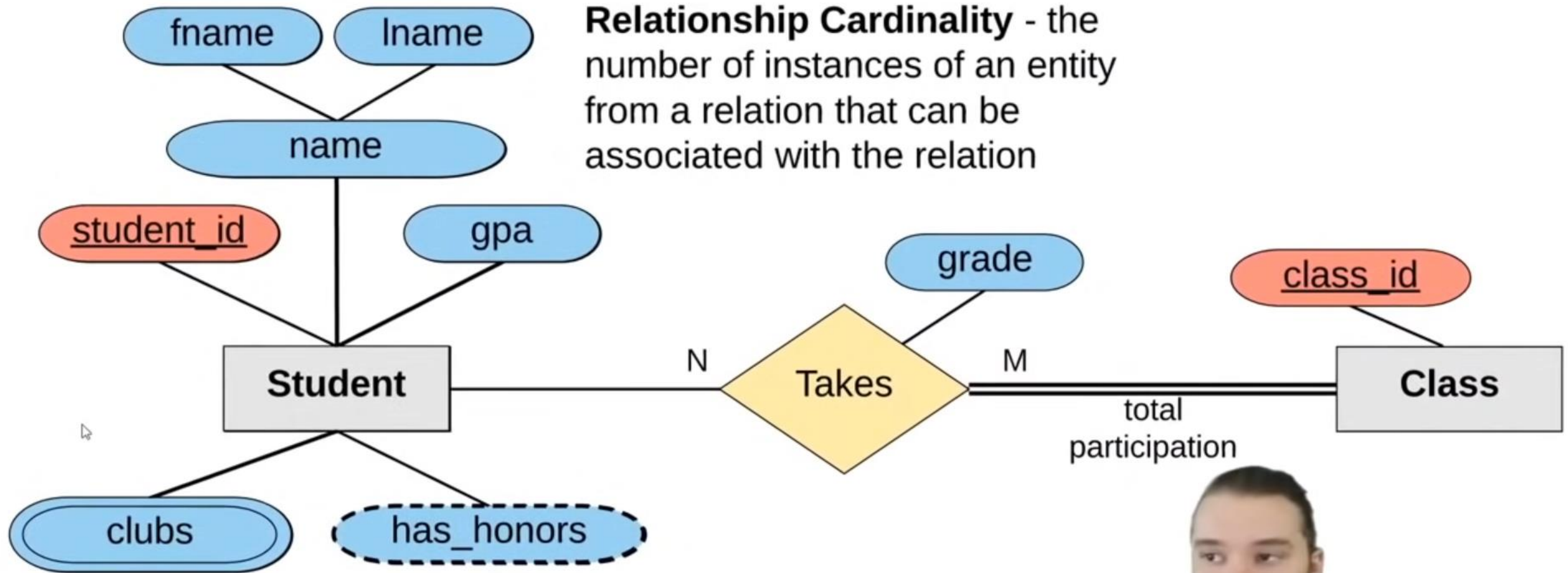
Total Participation - All members must participate in the relationship



Relationship Attribute - An attribute about the relationship



Relationship Cardinality - the number of instances of an entity from a relation that can be associated with the relation



1 : 1
1 : N
N : M

Weak Entity - An entity that cannot be uniquely identified by its attributes alone

Identifying relationship - A relationship that serves to uniquely identify the weak entity

