

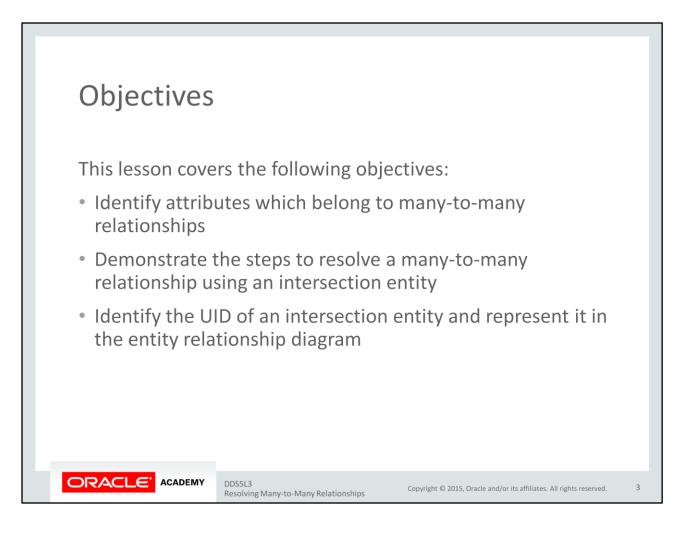
Release Date: August, 2015 Updates:

Database Design

5-3 Resolving Many-to-Many Relationships



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Purpose

- This lesson will help you complete your model you may need to create new entities or new relationships based on the business needs.
- It will also help you define the scope of your data model you only model what is of importance to the business.

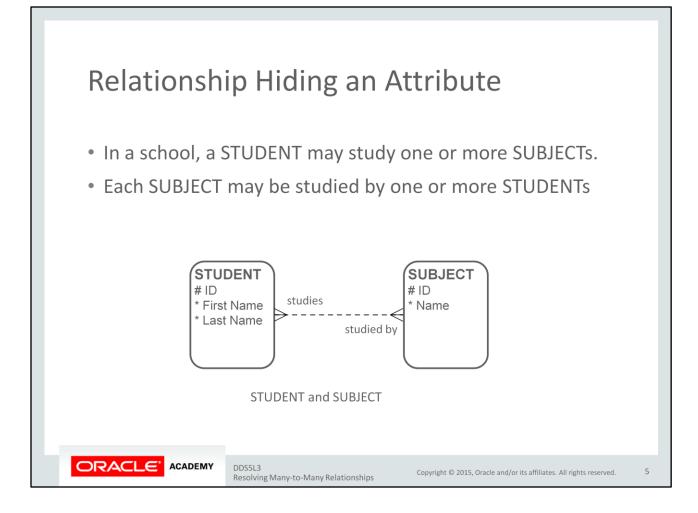


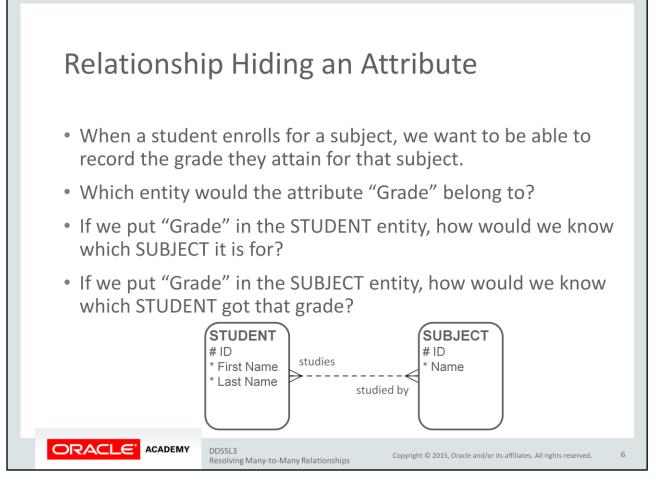
ACADEMY

DDS5L3 Resolving Many-to-Many Relationships

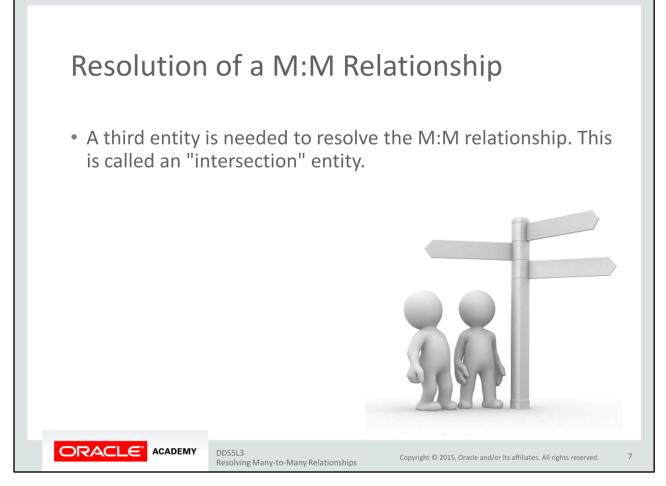
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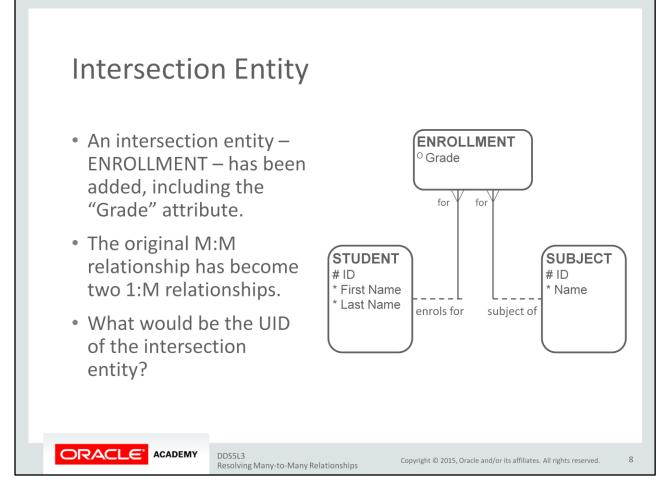




The grade is an attribute of the many-to-many relationship between STUDENT and CLASS, not of either entity alone.

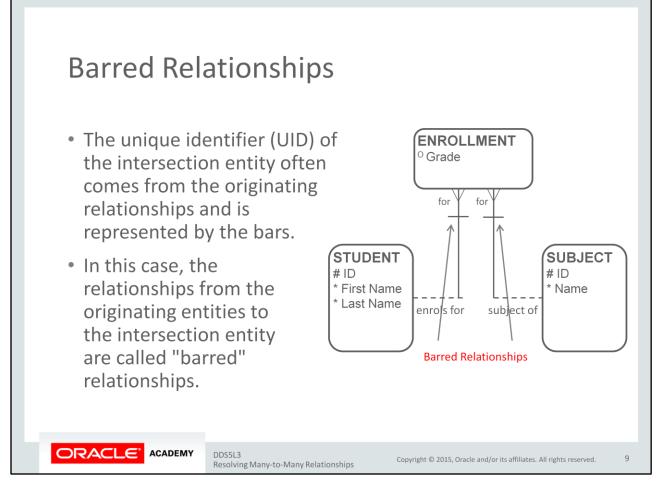


Since every attribute must belong to an entity, we need a third entity.



Intersection entity: The product of the resolution of a many to many relationship

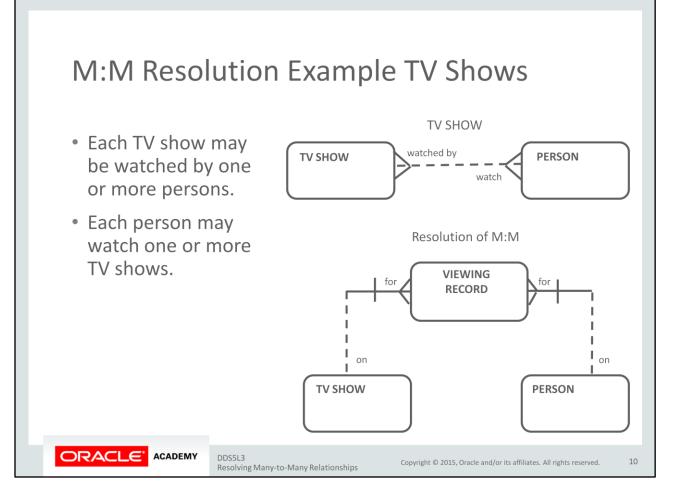
Note that the relationships have become mandatory at the side of the Intersection entity, as an ENROLLMENT cannot exist without a corresponding STUDENT and SUBJECT



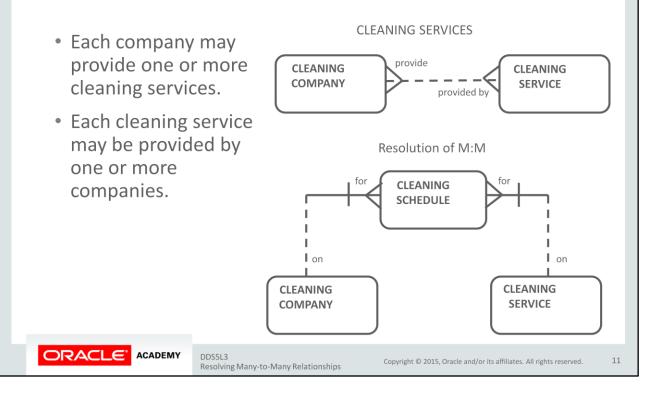
Barred relationship: A relationship that participates in an entity's unique identifier

The UID for ENROLLMENT is the combination of STUDENT id and SUBJECT id.

When you draw a barred relationship, you do not add the UID attribute names to the intersection entity, as the bars represent this.



M:M Resolution Example Cleaning Services



Terminology

Key terms used in this lesson included:

- Barred relationship
- Intersection entity



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