Resolving Many-to-Many Relationships
What Will I Learn?

In this lesson, you will learn to:

• Identify attributes which belong to many-to-many relationships
• Demonstrate the steps to resolve a many-to-many relationship using an intersection entity
• Identify the UID of an intersection entity and represent it in the entity relationship diagram
Why Learn It?

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.
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Relationship Hiding an Attribute

In the DJ business, each PARTNER may be assigned to work on one or more EVENTs. Each EVENT may be a job for one or more PARTNERs.

When an EVENT PLANNER, a DJ, or a PROJECT MANAGER works on an EVENT, we want them to record the status of the job.

Which entity would the attribute "status" belong to?
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Resolution of a M:M Relationship
A third entity is needed to resolve the M:M relationship. This is called an "intersection" entity.
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An intersection entity – JOB ASSIGNMENT – has been added, including the status attribute.

The original M:M relationship has become two 1:M relationships.

What would be the UID of the intersection entity?
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Barred Relationships

The unique identifier (UID) of the intersection entity often comes from the originating relationships and is represented by the bars. In this case, the relationships from the originating entities to the intersection entity are called "barred" relationships.
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M:M Resolution
Example: TV Shows
Each TV show may be watched by one or more persons.

Each person may watch one or more TV shows.
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**M:M Resolution**

**Example: Cleaning Services**

Each company may provide one or more cleaning services.

Each cleaning service may be provided by one or more companies.
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Terminology

Key terms used in this lesson include:

- Barred relationship
- Intersection entity
Summary

In this lesson, you have learned how to:

• Identify attributes which belong to many-to-many relationships
• Demonstrate the steps to resolve a many-to-many relationship using an intersection entity
• Identify the UID of an intersection entity and represent it in the entity relationship diagram
Summary

Practice Guide
The link for the lesson practice guide can be found in the course resources in Section 0.