SYSTEMS ANALYSIS AND DATABASE DESIGN: MIT 263
Lab Exercise 3-1 Resolving Many-to-Many (M:M) Relationships

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Objectives
1. Identify **Many-to-Many (M:M) relationships** in their ERD.
2. Resolve M:M relationships by **introducing an intersection entity.**
3. Redefine entity relationships using **One-to-Many (1:M) relationships**.

Activity:

1: Identify the Many-to-Many (M:M) Relationships

I. **User account** and **Access Role**

   a. Each **User Account** may be associated to one or more **Access Role**
   b. Each **Access Role** may have associated with one or more **User Account**

2: Introduce an Intersection Entity

I. **User account and Access Role**

Before:	After:
• User Account	• User Account
• Access Role	• User Group
	• Group Role (Intersection)
	• Access Role

3: Updated ERD and Relationships