**Language Learning Database Management System**

**Modifications part of the ERD-**

1. **Introducing Associative Entities**

To include associative entities in the relationship, many to many entities are modified. As a result, these links improve the data's accuracy and clarity.

Associative Entities added to relations: User-Contest, Instructor-Premium User, User-Resource

1. **Multivalued Attribute distribution to weak Entity**

QuizContent's multivalued attribute was removed, and QuizOptions is now a separate table.

1. **Composite Attribute distribution in Instructor and User**

Separated Full Name to First Name and Last Name

1. **Foreign Keys**

Data integrity is ensured by placing foreign keys inside associative entities, which create links between the parent entities.

1. Adding FK to many sides of the relationship- Resources Entity
2. Progress % is associated with user and language course and introduced in an associative entity and removed from language course.
3. Adding texts to entities to read the relationships of the entities both ways.