

## **METHOD**

### **Step 1: Identifying and Integrating Common Entities**

- Identify the common entities across all EER diagrams.
- Add the identified common entities to your new EER diagram.
- If entities with different names serve the same purpose, standardize them under a common name and include them in your EER diagram.
- For each common entity, determine the attributes shared across the diagrams.
- Add these shared attributes to the corresponding common entities in your new EER diagram.
- Note the entities that are not common and their functions.

### **Step 2: Standardizing and Integrating Relationships**

- Identify the relationships present in all EER diagrams.
- Add these relationships to your new EER diagram.
- If relationships with different names serve the same purpose, standardize them under a common name and include them in your EER diagram.
- Add the common cardinalities.
- If there are differences in cardinalities, write the one that you find most appropriate.
- Note any differences in attributes or structure between similar relationships.

### **Step 3: Adding Specific Attribute**

- Among the different attributes, the ones suitable for the new case are added.
- Data types are added by selecting the one with the largest coverage area among non-overlapping attributes.

### **Step 4: Integrating Specific Strong Entities**

- Among the different entities, the strong ones are considered.
- Strong entities that are suitable for the purpose of the new EER are added to the diagram.
- The relationships between them are added with appropriate names and cardinalities.

### **Step 5: Integrating Specific Weak Entities**

- If the added strong entities have weak entities suitable for the purpose of the new EER, they are included.
- The relationships between them are added with appropriate names and cardinalities.

- If the weak entities are not completed, return to the beginning of Step 5.

**Step 6:**

- The entire EER is reviewed and checked.
- Entities, attributes, and relationships to be added externally are included.