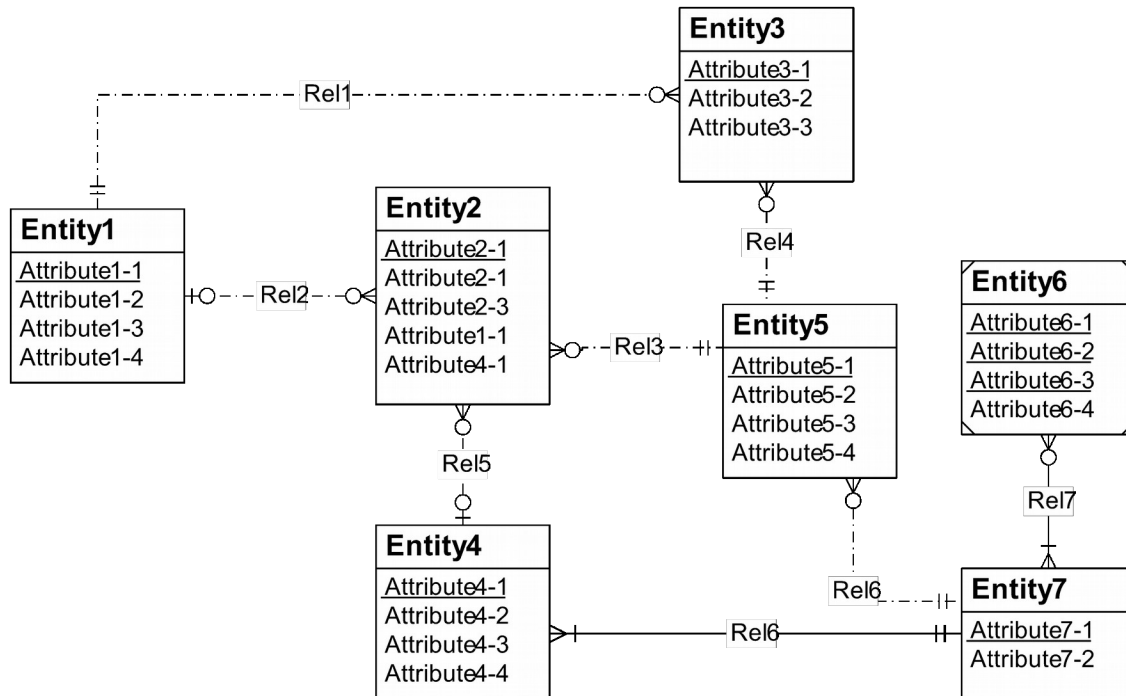


Module 7 Assignment

Question 4



Above ERD Diagram has **5 errors**:

1. *Identification Dependency Cardinality Rule Violation (At Rel7). Cardinality of Weak Entity should be (1,1)*
2. *Redundant FK(Foreign Key) Rule Violation(At Rel2, Entity 2 is having Attribute1-1 which is primary key of Entity 1.*
3. *Redundant FK(Foreign Key) Rule Violation(At Rel5, Entity 2 is having Attribute4-1 which is primary key of Entity 4.*
4. *Identifying Relationship Rule Violation. The relationship between Entity4 and Entity7 is given identifying but none of them is weak entity.*
5. **Attribute Name Rule Violation:Entity 2 is having 2 attributes with same name Attribute2-1.**

Correction

1. Resolution of *Identification Dependency Cardinality Rule* (At **Rel7**) : **Cardinality of 'Rel7' near Entity7 is made to be (min,max) = (1,1)**
2. Resolution of *Redundant FK(Foreign Key) Rule* (At **Rel2**): **Remove the redundant foreign key (Entity2.Attribute1-1)**
3. Resolution of *Redundant FK(Foreign Key) Rule*(At **Rel5**): **Remove the redundant foreign key (Entity2.Attribute4-1)**
4. Resolution of *Identifying Relationship Rule*(Relationship between **Entity4 and Entity7**) :**Make this relationship non-identifying.**
5. Resolution to Attribute Name Rule (in Entity2):
Rename the Attribute2-1 which is not primary key to Attribute2-2.

Corrected Diagram:

