4.For each consistency error in Figure 1, you should identify the consistency rule violated and suggest possible resolutions of the error. The ERD has generic names to help will concentrate on finding diagram errors rather than focusing on the meaning of the diagram



Solution

Entity 4 to Entity 7 should be regular relationship not an identifying relationship (Because entity 7 is not a Weak entity – Identification dependency rule violation)

Entity 7 to Entity 6 should have maximum and minimum of one cardinality (violates Identification dependency cardinality rule)

Entity 2 to Entity 4 has redundant foreign key violation rule (Attribute 4-1 should be removed from Entity2)

Entity 1 to Entity 2 has redundant foreign key violation rule (Attribute 1-1 should be removed from Entity2)

Entity 2 has attribute redundancy (attribute name 2-1)

Corrected ERD

