

1. Redundant FK Violation: Attribute 1-1 which is primary key in Entity 1 is foreign key in Entity 2.
2. Redundant FK Violation: Attribute 4-1 which is primary key in Entity 4 is foreign key in Entity 2.
3. Attribute Name Violation: There are two attributes with the same name in entity 2.
4. Identification Dependency Cardinality Rule Violation: Weak entity type entity 6 should have cardinality 1,1
5. Identifying Relationship Rule Violation: Rel6 between entities 4 and 7 is identifying however none of them is weak entity.

Suggested Solutions:

1. Removal of foreign keys Attribute 1-1 from entity 2.
2. Removal of foreign key attribute 4-1 from entity 2.
3. Rename the attribute 2-1 in entity 2 which is not primary key to attribute 2-2
4. Make the relationship rel7 non identifying.
5. Cardinality of entity 7 in rel7 is to be made 1,1