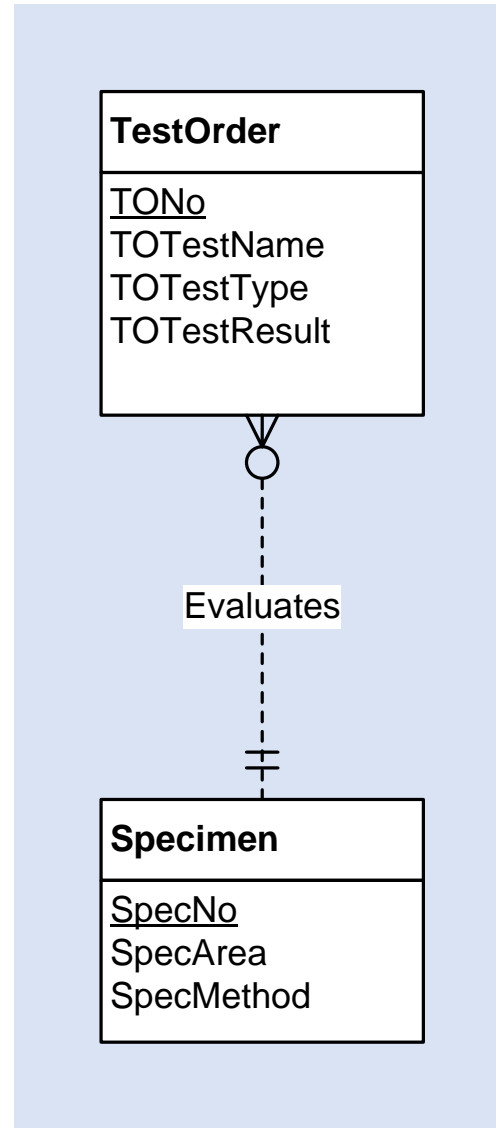
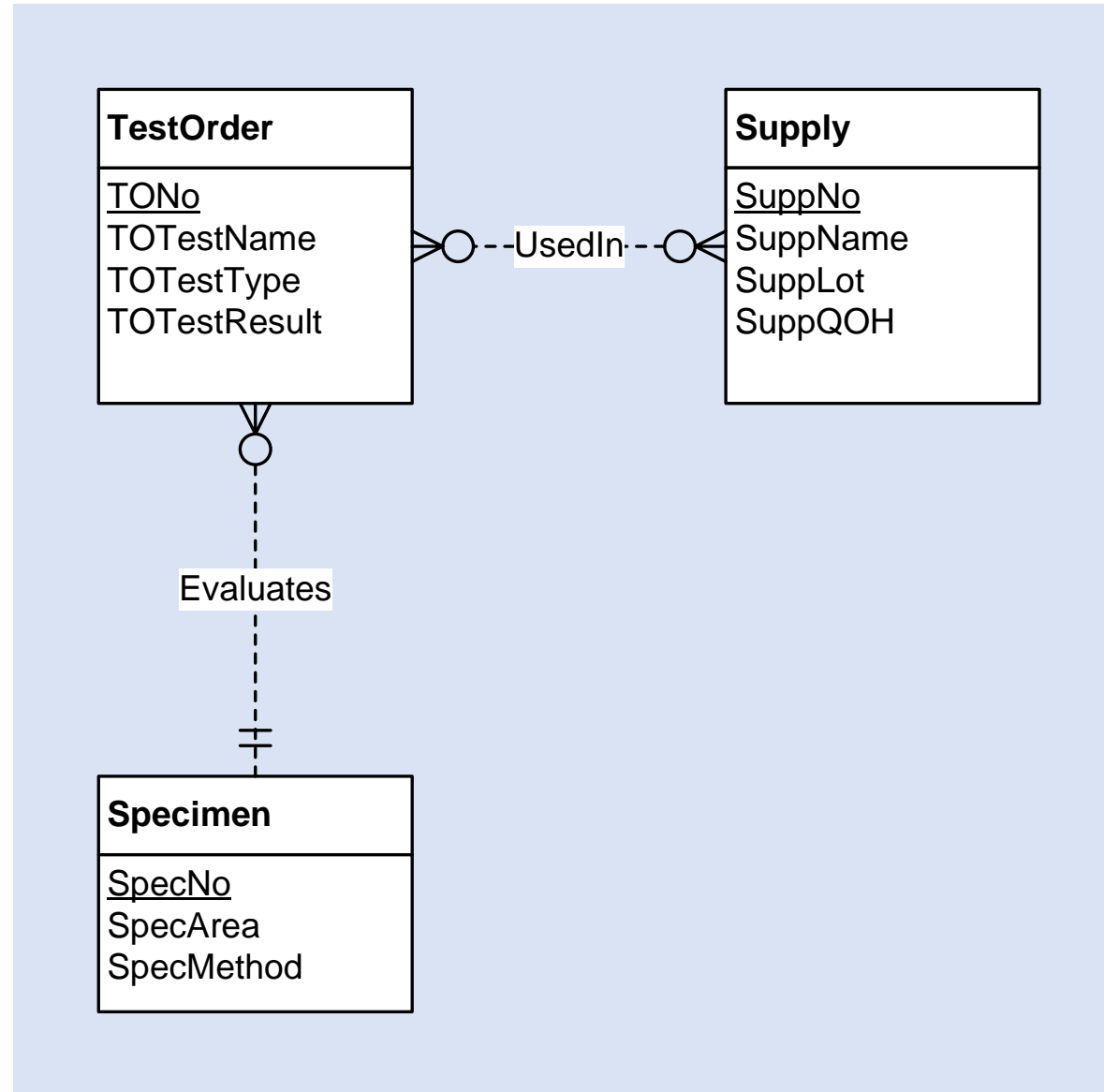


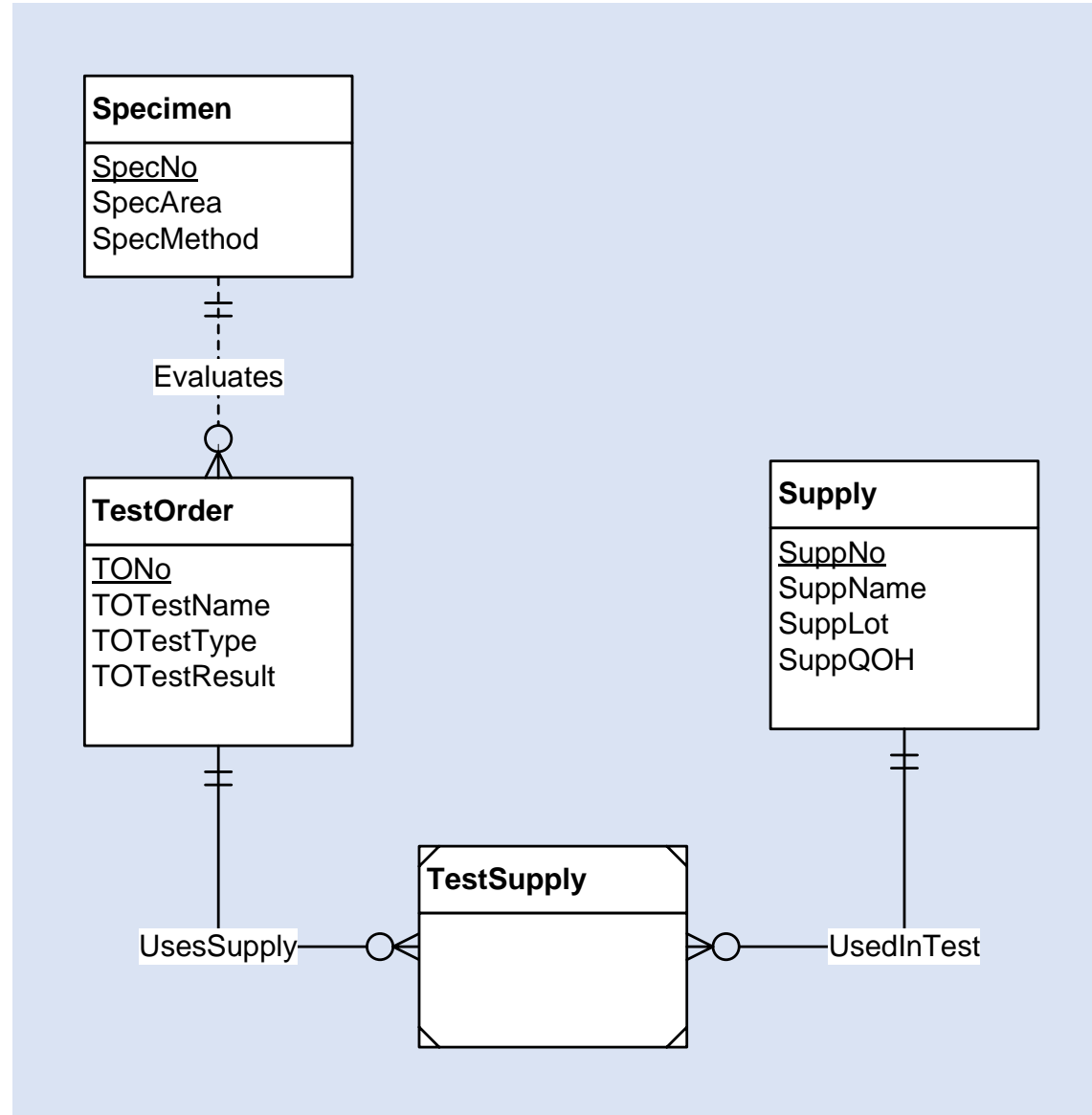
Problem 1



Problem 2

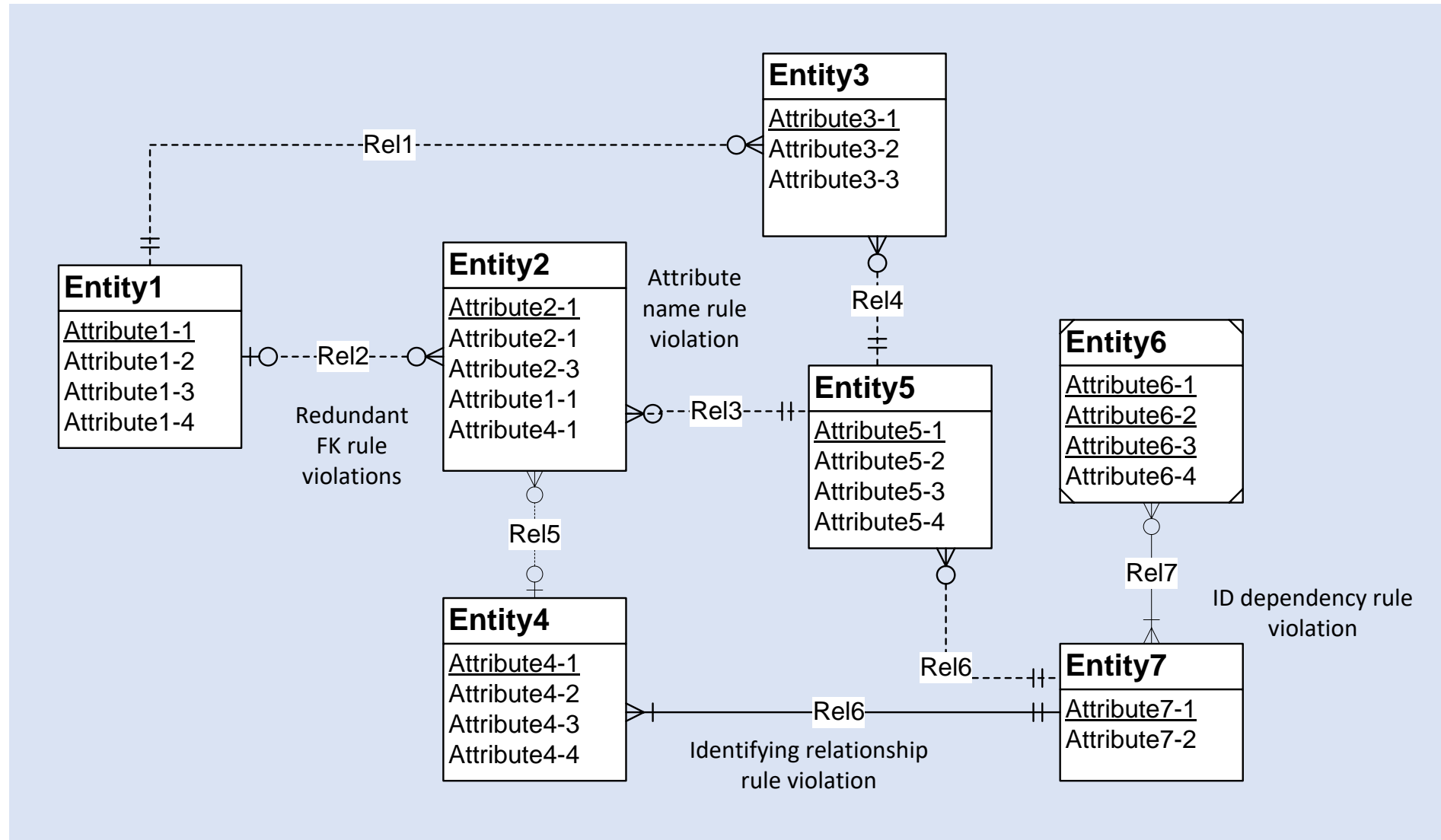


Problem 3



Problem 4

Consistency rule violations are noted on the ERD. Note that there is no violation for identical relationship names.



Problem 4 Contd..

The following list identifies possible ways to fix the consistency errors:

- Attribute name rule resolution: rename one of the Attribute2-1 attributes. Probably renaming the second attribute is easier because it is not the PK.
- Identifying relationship rule resolution: The problem can be resolved by changing Entity4 to a weak entity or changing the relationship (Rel6) to regular (non-identifying).
- Identification dependency cardinality rule resolution: The problem can be resolved by changing the weak entity type's cardinality in Rel7 (near Entity7) to (1,1). Alternately, Rel7 can be made non-identifying and Entity6 can be changed to strong (non-weak).
- Redundant foreign key rule resolution: Normally the problem can be resolved by removing the redundant foreign keys (Entity2.Attribute1-1 and Entity2.Attribute4-1). If the attributes do not represent foreign keys, they should be renamed instead of removed.