1. 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



Figure 1: ERD for Problem 4

* Identifying relationship rule violation: The problem can be resolved by adding one or more weak entities or making the relationship (Rel6) non-identifying.
* Redundant foreign Key: Entity2 contains the attribute which is the primary key of the Entity 1 and Entity 4 . It can be resolved by renaming or removing.
* Identification dependency cardinality rule violation: Rel7, the minimum and maximum cardinality of a weak entity in all identifying relationship should be (1,1).The problem can be resolved by changing the cardinality to (1,1).
* Primary Key Violation: The primary key for the weak entity must come from a strong entity. But in the Entity 6 it is not there. So it can be resolved by adding the keys from Entity7.