1. Write the inferred axioms using description logic after conducting classification in forward reasoning on the following axioms.

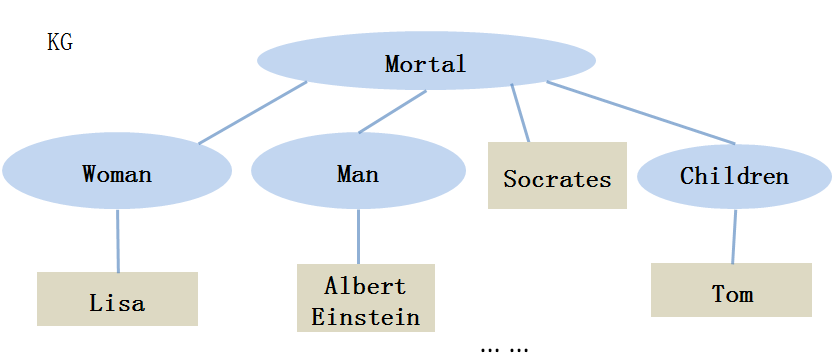
Endocarditis Heart\_Disease

Miocardial\_Infarction Heart\_Disease

Heart\_Disease Disease

Enterococcal\_Endocarditis Endocarditis

2） Given the following KG, please answer the question “Is Albert Einstein a mortal?” using query rewriting on the query *Mortal(Albert Einstein)* (this query is used for checking whether Albert Einstein is a mortal) .



3) The following ontology is inconsistent. Please remove one axiom in it to make it consistent and explain why it should be removed in natural langauge.

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4）Give a model of the following ontology and verify it is a model:

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