

Semantic Web Technologies OWL Modelling Assignment

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Question 1-4

OWL-XML file is attached. Filename: Task1-4.owx

Question 5

OWL-XML file is attached. Filename: Task5.owx

In such a scenario, class B is unsatisfiable ($B \text{ SubClassOf } \text{owl:Nothing}$) because to the disjointness hypothesis $D \text{ DisjointWith } B$. This indicates that D and B cannot have any common occurrences or persons. Because there is a subclass axiom $B \text{ SubClassOf } C \text{ or } D$, there is a contradiction in the ontology. The reasoner infers that there are no individuals that can satisfy class B, hence it is unsatisfiable.