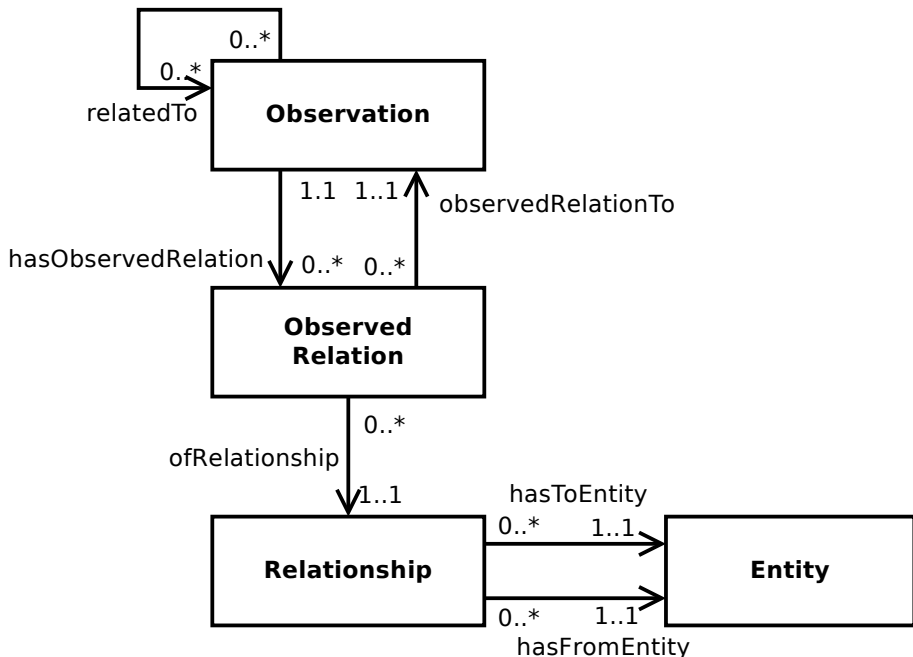


Axioms:

1. $\text{ofCharacteristic}(\text{?m}, \text{?c}), \text{hasMeasurement}(\text{?o}, \text{?m}), \text{ofEntity}(\text{?o}, \text{?e}) \rightarrow \text{hasCharacteristic}(\text{?e}, \text{?c})$
2. $\text{hasCharacteristic}(\text{?e}, \text{?m}), \text{ofCharacteristic}(\text{?m}, \text{?c}), \text{hasMeasurement}(\text{?o}, \text{?m}) \rightarrow \text{ofEntity}(\text{?o}, \text{?e})$



hasObservedRelation o observedRelationTo subPropOf relatedTo

Axioms:

3. $\text{hasObservedRelation}(\text{?o1}, \text{?p}), \text{observedRelationTo}(\text{?p}, \text{?o2}), \text{ofRelationship}(\text{?p}, \text{?r}), \text{ofEntity}(\text{?o1}, \text{?e1}), \text{ofEntity}(\text{?o2}, \text{?e2}) \rightarrow \text{hasFromEntity}(\text{?r}, \text{?e1}), \text{hasToEntity}(\text{?r}, \text{?e2})$
4. $\text{hasObservedRelation}(\text{?o1}, \text{?p}), \text{observedRelationTo}(\text{?p}, \text{?o2}), \text{ofRelationship}(\text{?p}, \text{?r}), \text{hasFromEntity}(\text{?r}, \text{?e1}), \text{hasToEntity}(\text{?r}, \text{?e2}) \rightarrow \text{ofEntity}(\text{?o1}, \text{?e1}), \text{ofEntity}(\text{?o2}, \text{?e2})$