

## Queries

- Given a particular Execution, retrieve the pertaining ComputerModel
- Given some InstantiationAttributeOutput retrieve all related CodeFile

**Mutually disjoint classes:** Attribute, ComputationalModel, Algorithm, CodeCollection, CodeFile, ExecutableCollection, ExectuableFile, Execution, AttributeInstantiation.

Attribute      AttributeInstantiation	(1)
InputAttribute ⊑ Attribute OutputAttribute ⊑ Attribute	(2) (3)
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$Computational Observation \sqsubseteq Output Attribute Instantiation$	(4)
OutputAttributeInstantiation $\sqsubseteq$ AttributeInstantiation	(5)
InputAttributeInstantiation $\sqsubseteq$ AttributeInstantiation	(6)
$Computational Model \sqsubseteq \exists has Input Attribute. Input Attribute$	(7)
ComputationalModel   ∃hasOutputAttribute.OutputAttribute	(8)
Execution ⊑ ∃hasInputAttributeInstantiation.InputAttributeInstantiation	(9)
$Execution \sqsubseteq \exists hasOutputAttributeInstantiation.OutputAttributeInstantiation$	on
	(10)
Execution ⊑≥ 0hasStartTime.StartTime	(11)
Execution $\sqsubseteq \ge 0$ has EndTime. EndTime	(12)
Execution ⊑≥ 0occurredAtMachine.Machine	(13)
Execution $\sqsubseteq \ge 0 \dots$	(14)
Execution $\sqsubseteq \le 1$ is Execution Of. Executable Collection	(15)
Execution $\sqsubseteq \le 1$ is Realization Of. Code Collection	(16)
ExecutableCollection $\sqsubseteq \le 1$ wasCompiledFrom.CodeCollection	(17)
Exceediable collection = 1 was complicat form code collection	(17)
wasCompiledFrom isCompiledInto	(18)
$wasCompiledFrom^- \sqsubseteq isCompiledInto$	(10)
isExecutionOf ∘ wasCompiledFromisRealizationOf	(19)