

Modeling in OWL – Ontology Engineering

- Tools:
 - Protege Ontology Editor
- Ontologies
 - Wine ontology, Pizza ontology

Use Protege to model the following “University” Domain

- A lecture needs one lecturer
 - $Lecture \sqsubseteq \exists \textit{needs.Lecturer}$
- Professor is a lecturer
 - $Professor \sqsubseteq Lecturer$
- Each professor must teach at least one lecture
 - $Professor \sqsubseteq \exists \textit{teach.Lecture}$
- A student has to attend at least one lecture
 - $Student \sqsubseteq \exists \textit{attend.Lecture}$

- A studentworker is an employee
 - $Studentworker \sqsubseteq Employee$
- A studentworker is a student
 - $Studentworker \sqsubseteq Student$
- bob is a studentworker
 - $Studentworker(bob)$
- A student can not be an employee
 - $Student \sqsubseteq \neg Employee$
 - $Student \sqcap Employee \sqsubseteq \perp$