Degree	=	${\sf BachelorDegree} \sqcup {\sf MasterDegree} \sqcup {\sf DoctoralDegree}$
BachelorDegree		$\neg MasterDegree$
BachelorDegree		$\neg DoctoralDegree$
${\sf MasterDegree}$		$\neg DoctoralDegree$
Bachelor	≡	\exists hasDegree.BachelorDegree
Master	≡	\exists hasDegree.MasterDegree
Doctor	≡	\exists hasDegree.DoctoralDegree
Bachelor		Person
Master		Bachelor
Doctor		Master
Teacher	\equiv	\exists teaches.Course
Teacher		Doctor
Assistant	\equiv	∃assists.Course
Assistant		Master
Student	≡	\exists attends.Course
Student		Person
Student		${\sf BachelorStudent} \sqcup {\sf MasterStudent} \sqcup {\sf DoctoralStudent}$
${\sf BachelorStudent}$		Student $\sqcap \neg Bachelor$
${\sf MasterStudent}$		Student \sqcap Bachelor \sqcap \neg Master
${\sf Doctoral Student}$		Student \sqcap Master $\sqcap \neg$ Doctor
Person		\negCourse
Degree		$\neg Person$
Degree		\negCourse

Exercise 1. Find an interpretation such that each concept is non-empty.

 ${\bf Exercise}$ 2. Find out if the following concepts are satisfiable:

- 1. Student \sqcap Teacher
- 2. Student \sqcap Assistant

Exercise 3. Proove that $\exists hasDegree.Degree \sqsubseteq Person.$