

Classes

AdministrativeStaff

AdministrativeStaff \sqsubseteq Employee

Article

Article \sqsubseteq Publication

AssistantProfessor

AssistantProfessor \sqsubseteq Professor

AssociateProfessor

AssociateProfessor \sqsubseteq Professor

Book

Book \sqsubseteq Publication

Chair

Chair \equiv Person $\sqcap \exists$ headOf Department

Chair \sqsubseteq Professor

ClericalStaff

ClericalStaff \sqsubseteq AdministrativeStaff

College

College \sqsubseteq Organization

ConferencePaper

ConferencePaper \sqsubseteq Article

Course

Course \sqsubseteq Work

Dean

Dean $\equiv \exists$ headOf College

Dean \sqsubseteq Professor

Department

Department \sqsubseteq Organization

Director

Director \equiv Person $\sqcap \exists$ headOf Program

EducationalOrganization

EducationalOrganization \sqsubseteq Organization

Employee

Employee \equiv Person $\sqcap \exists$ worksFor Organization

Faculty

Faculty \sqsubseteq Employee

FullProfessor

FullProfessor \sqsubseteq Professor

GraduateCourse

GraduateCourse \sqsubseteq Course

GraduateStudent

GraduateStudent \sqsubseteq Person

GraduateStudent $\sqsubseteq \exists$ takesCourse GraduateCourse

Institute

Institute \sqsubseteq Organization

JournalArticle

JournalArticle \sqsubseteq Article

Lecturer

Lecturer \sqsubseteq Faculty

Manual

Manual \sqsubseteq Publication

Organization

Person

PostDoc

PostDoc \sqsubseteq Faculty

Professor

Professor \sqsubseteq Faculty

Program

Program \sqsubseteq Organization

Publication

Research

Research \sqsubseteq Work

ResearchAssistant

ResearchAssistant \sqsubseteq Person

ResearchAssistant $\sqsubseteq \exists$ worksFor Thing

ResearchGroup

ResearchGroup \sqsubseteq Organization

Schedule

Software

Software \sqsubseteq Publication

Specification

Specification \sqsubseteq Publication

Student

Student \sqsubseteq Person

Student $\sqsubseteq \exists$ takesCourse Thing

SystemsStaff

SystemsStaff \sqsubseteq AdministrativeStaff

TeachingAssistant

TeachingAssistant \sqsubseteq Person

TeachingAssistant $\sqsubseteq \exists$ teachingAssistantOf Thing

TechnicalReport

TechnicalReport \sqsubseteq Article

Thing

UndergraduateStudent

UndergraduateStudent \sqsubseteq Student

University

University \sqsubseteq EducationalOrganization

UnofficialPublication

UnofficialPublication \sqsubseteq Publication

VisitingProfessor

VisitingProfessor \sqsubseteq Professor

Work

Object properties

advisor

\exists advisor Thing \sqsubseteq Person

$\top \sqsubseteq \forall$ advisor Professor

affiliateOf

\exists affiliateOf Thing \sqsubseteq Organization

$\top \sqsubseteq \forall$ affiliateOf Person

affiliatedOrganizationOf

\exists affiliatedOrganizationOf Thing \sqsubseteq Organization

$\top \sqsubseteq \forall$ affiliatedOrganizationOf Organization

degreeFrom

$\langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#degreeFrom} \rangle \equiv \langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#hasAlumnus} \rangle^-$
 $\exists \text{ degreeFrom Thing} \sqsubseteq \text{Person}$
 $\top \sqsubseteq \forall \text{ degreeFrom University}$

doctoralDegreeFrom

$\sqsubseteq \text{degreeFrom}$
 $\exists \text{ doctoralDegreeFrom Thing} \sqsubseteq \text{Person}$
 $\top \sqsubseteq \forall \text{ doctoralDegreeFrom University}$

hasAlumnus

$\langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#degreeFrom} \rangle \equiv \langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#hasAlumnus} \rangle^-$
 $\exists \text{ hasAlumnus Thing} \sqsubseteq \text{University}$
 $\top \sqsubseteq \forall \text{ hasAlumnus Person}$

headOf

$\sqsubseteq \text{worksFor}$

listedCourse

$\exists \text{ listedCourse Thing} \sqsubseteq \text{Schedule}$
 $\top \sqsubseteq \forall \text{ listedCourse Course}$

mastersDegreeFrom

$\sqsubseteq \text{degreeFrom}$
 $\exists \text{ mastersDegreeFrom Thing} \sqsubseteq \text{Person}$
 $\top \sqsubseteq \forall \text{ mastersDegreeFrom University}$

member

$\langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#memberOf} \rangle \equiv \langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#member} \rangle^-$
 $\exists \text{ member Thing} \sqsubseteq \text{Organization}$
 $\top \sqsubseteq \forall \text{ member Person}$

memberOf

$\langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#memberOf} \rangle \equiv \langle \text{http://www.lehigh.edu/ zhp2/2004/0401/univ-bench.owl\#member} \rangle^-$

orgPublication

$\exists \text{ orgPublication Thing} \sqsubseteq \text{Organization}$
 $\top \sqsubseteq \forall \text{ orgPublication Publication}$

publicationAuthor

$\exists \text{ publicationAuthor Thing} \sqsubseteq \text{Publication}$
 $\top \sqsubseteq \forall \text{ publicationAuthor Person}$

publicationDate

$\exists \text{ publicationDate Thing} \sqsubseteq \text{Publication}$

publicationResearch

$\exists \text{ publicationResearch Thing} \sqsubseteq \text{Publication}$
 $\top \sqsubseteq \forall \text{ publicationResearch Research}$

researchProject

$\exists \text{ researchProject Thing} \sqsubseteq \text{ResearchGroup}$
 $\top \sqsubseteq \forall \text{ researchProject Research}$

softwareDocumentation

$\exists \text{ softwareDocumentation Thing} \sqsubseteq \text{Software}$
 $\top \sqsubseteq \forall \text{ softwareDocumentation Publication}$

softwareVersion

$\exists \text{ softwareVersion Thing} \sqsubseteq \text{Software}$

subOrganizationOf

$\text{TransitiveProperty subOrganizationOf}$
 $\exists \text{ subOrganizationOf Thing} \sqsubseteq \text{Organization}$
 $\top \sqsubseteq \forall \text{ subOrganizationOf Organization}$

takesCourse

teacherOf

$\exists \text{ teacherOf Thing} \sqsubseteq \text{Faculty}$
 $\top \sqsubseteq \forall \text{ teacherOf Course}$

teaches

teachingAssistantOf

\exists teachingAssistantOf Thing \sqsubseteq TeachingAssistant
 $\top \sqsubseteq \forall$ teachingAssistantOf Course

tenured

\exists tenured Thing \sqsubseteq Professor

undergraduateDegreeFrom

\sqsubseteq degreeFrom
 \exists undergraduateDegreeFrom Thing \sqsubseteq Person
 $\top \sqsubseteq \forall$ undergraduateDegreeFrom University

worksFor

\sqsubseteq worksFor_rg

worksFor_rg

\sqsubseteq memberOf

Data properties

age

\exists age Datatypehttp://www.w3.org/2000/01/rdf-schema#Literal \sqsubseteq Person

emailAddress

\exists emailAddress Datatypehttp://www.w3.org/2000/01/rdf-schema#Literal \sqsubseteq Person

name

officeNumber

researchInterest

telephone

\exists telephone Datatypehttp://www.w3.org/2000/01/rdf-schema#Literal \sqsubseteq Person

title

\exists title Datatypehttp://www.w3.org/2000/01/rdf-schema#Literal \sqsubseteq Person

Individuals

Datatypes

PlainLiteral