University Ontology

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# Problem definition

We want to make an ontology that holds data of universities, this data consists of but not limited to universities, faculties, departments, education programs, courses, staff, students, TAs, lecturers, thesis, and exams.

We need our ontology to be able to answer questions such as who belongs to which department? Which courses do students study? Which courses do the university offer? What faculties are in a university?

# Proposed solution

Diagram

Description automatically generated

## Slots

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Description | Domain | Range |
| address | University address | University | string |
| capacity | Capacity of a course | Course | Integer |
| id | ID of a person (Student or staff) | Person | String |
| Iname | Name of an object | NamedClass | string |
| salary | Salary of staff | Academic\_Staff | integer |
| course\_of\_department | Which department the course belongs to | Course | Department |
| department\_of | Department of which faculty | Department | Faculty |
| enrolled\_in | Student enrolled in which course | Student | Course |
| have | Have relationship between things | Thing | Thing |
| has\_coursework | Course has coursework | Course | Course\_Work |
| have\_course | Department has Course | Department | Course |
| have\_department | Faculty has Departments | Faculty | Department |
| have\_exam | Course has Exam | Course | Exam |
| have\_faculty | University has Faculties | University | Faculty |
| have\_labroom | Course has assigned Lab room | Course | Lab\_room |
| have\_lecturehall | Course has Lecture halls | Course | Lecture\_hall |
| have\_program | Faculty have which programs | Faculty | Program |
| have\_staff | Department have which staff | Department | Academic\_Staff |
| have\_students | Programs have which students | Program | Students |
| have\_thesis | TA have which thesis | TA | Thesis |
| program\_of | Program of which faculty | Program | Faculty |
| staff\_of | Works with which department | Academic\_Staff | Department |
| student\_of | Student of which program | Student | Program |
| teaches | Teaches which course | Academic\_Staff | Course |

# Graphical user interface

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

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