

Professor

- A professor's phone extension is equivalent to the office phone of their
- department A professor's email is unique A professor instructs at least one section
 A professor's employee number is unique

Office

An office contains a single professor at most
An office's existence depends on a professor working there

Every department name is unique

Department

GradeReport

A grade report's existence depends on its associated student and section's existence

Student A student is taking at least one section

Section

A section can have no associated grade reports
 A section's existence depends on its associated course's existence

1B

A student can have one or more buddies.

Office

· An office must contain at least one professor

Assumptions Degree

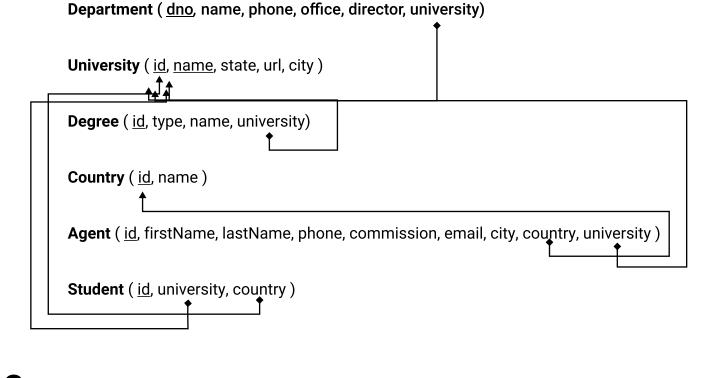
· Degrees must reference its associated university University
• Every university has at least one department

Student

there can be two students with the same ID from different universities.

• Every university keeps a set of unique identifiers for its students. Thus,

2B



2C

The relations in 2B are in 3NF because each table has its own unique column of identifiers. It would not be possible to determine a given column based on any other property in the tables.