

PROF table: One record describing each professor in the university.

field	description
<i>pID</i>	Professor's ID (Social Security number)
LASTNAME	Professor's last name
FIRSTNAME	Professor's first name
DEPT	Department of which the prof is a member
OFFICE	Room number of the professor's office
TITLE	Professor's academic rank
SALARY	Annual salary
MANAGER	ID of the Professor's manager (also a prof)

STUDENT table: One record describing each student in the university

field	description
<i>sID</i>	Student's ID (Social Security number)
LASTNAME	Student's last name
FIRSTNAME	Student's first name
DEPT	Department in which the student is enrolled
DATE_ENT	Date on which student entered the university
CR_COMP	Number of credits the student has completed
GPA	Student's grade point average
ADVISOR	ID of the student's faculty advisor -a prof

COURSE table: One record describing each course offered by the university

field	description
CNUM	Unique course number
NAME	Unique course name
DESCR	Course description
DEPT	Department which offers the course
LEVEL	Level of difficulty of the course
CREDITS	Number of credits which the course is worth

SECTION table: One record for each section of a course

field	description
CNUM	Course number
SECNUM	Section number of this offering of the course
PNUM	ID number of the professor teaching this section
TERM	Semester in which this section is offered

REPORT table: One record for each student enrolled in a course section

field	description
SNUM	Student's ID
SECNUM	Section taken by the student
TERM	Semester in which student took the course
GRADE	Grade achieved by the student

The following semantic (real world) rules are adhered to in this university:

These semantic rules wholly determine the intension of the database and hence all of its functional dependencies.

As always, data entry errors may (and frequently do) cause the database extension to violate these semantic rules.

The *pID* attribute of PROF is unique

The *sID* attribute of STUDNT is unique

The *cnum* attribute of COURSE is unique

The *name* attribute of COURSE determines the *descr* attribute

Managers and advisors must be professors

In SECTION, the *secnum* may be repeated, but is unique for any one *term*

A student may register for a specific section at most once for any one *term*