

Exercise 2: Designing Entities

A Student at a University & Faculty Members

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Students and Mark Explanation

Each student is assigned a number(PK), stores their class id(FK), which corresponds to a class table with it's own data. The table lists their exam name(s)(FK), which is the PK in the Mark table and stores their total marks in that table. The student table also has data of their name, email and address.

Department		
PK	department_id	serial
	dep_name	charvar(32)
	location	charvar(24)

Faculty Members and Department Ex

Each faculty member would have a id(PK) and a department id(FK), which corresponds to a department table with other data, department name and location on campus. The Faculty table will also have other kinds of attributes, their job title, name, email and address.

Yes, I merged these two questions together, I hope that's okay. I thought it made sense to do so...

FacultyMembers		
PK	faculty_id	serial
FK	department_id	serial
	job_title	charvar(32)
	first_name	charvar(32)
	last_name	charvar(32)
	fac_email	charvar(50)
	fac_address	charvar(32)

Students		
PK	student_num	serial
FK	class_id	serial
FK	exam_id	serial
	first_name	charvar(32)
	last_name	charvar(32)
	stud_email	charvar(50)
	stud_address	charvar(32)

Professor		
PK	professor_id	serial
FK	faculty_id	serial
	description	charvar(100)

Mark		
PK	exam_id	serial
	exam_name	charvar(32)
	total_marks	integer

Class		
PK	class_id	serial
FK	course_id	serial
	class_title	charvar(32)
	description	charvar(100)
FK	professor_id	serial

Course		
PK	course_id	serial
	course_title	charvar(32)
	description	charvar(100)

Professor, Course & Class Explanation

In the professor table, each professor would have their own id(PK) and their faculty id(FK) also listed, which has more personal information about them, and then a description which would explain further what they do. In the class table, professor id(FK) can be found, which has their class they teach. A class id(PK) for each class, class title and a description with more info about the class. There's also a course id(FK) there for what course is taught in that class, which corresponds to it's own table. The course table has info about the course, it's course title and a description about the course.