
Lab 10

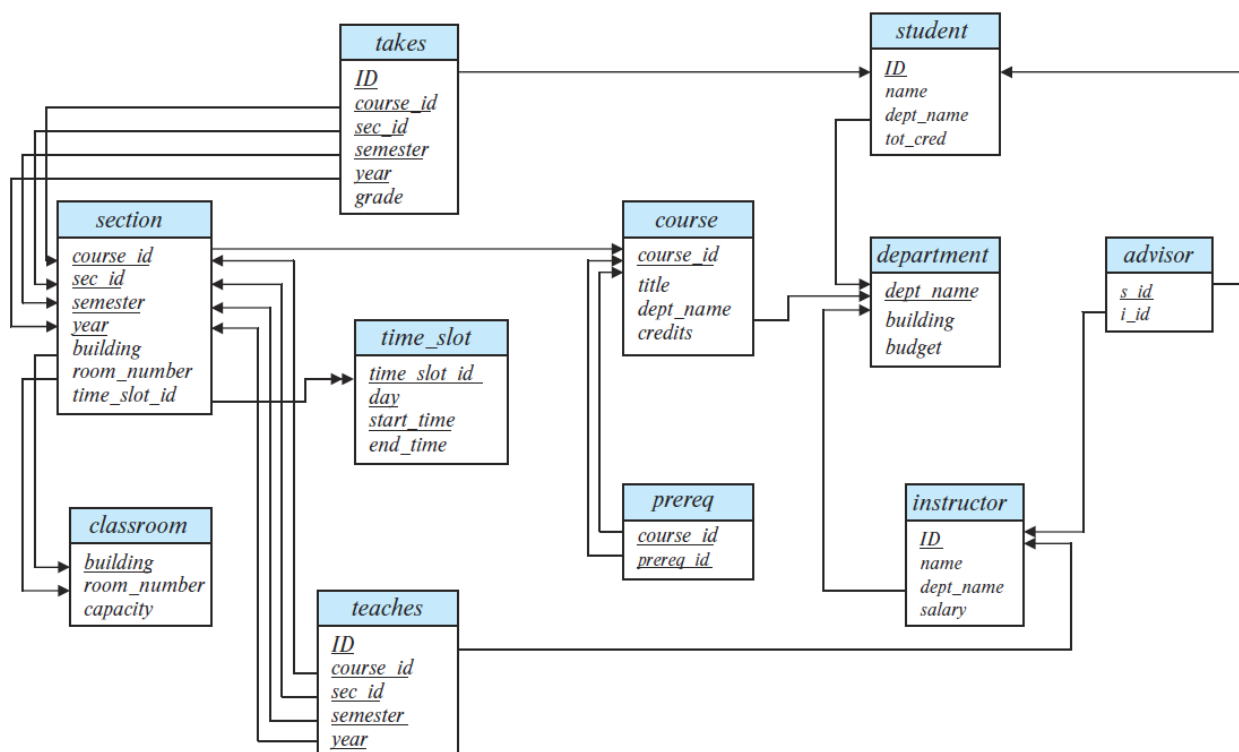
PL/SQL II

CSE 4308
DATABASE MANAGEMENT SYSTEMS LAB

NOVEMBER 9, 2022

1 Lab Task

Consider the following schema of an University Database:



Execute the given DDL+drop.sql and smallRelationsInsertFile.sql files. Then, write PL/SQL statements to perform the following tasks:

1. Decrease the budget of the departments having a budget more than 99999 by 10%. Show the number of departments that did not get affected.
2. Write a procedure that takes the day of the week and starting hour and ending hour as input and prints which instructors should be in the class during that time.
3. Write a procedure to find the top N students based on the number of courses they are enrolled in. The procedure should take N as input and print the ID, name, department name, and the number of courses taken by the student.
4. Create a trigger that automatically generates IDs for instructors when we insert data into INSTRUCTOR table.
5. Create a trigger that will automatically assign an advisor to a newly admitted student of his/her own department. In case there are multiple teachers, the advisor should be selected based on the least number of students advised.

Write anonymous blocks to illustrate your programs, if needed.