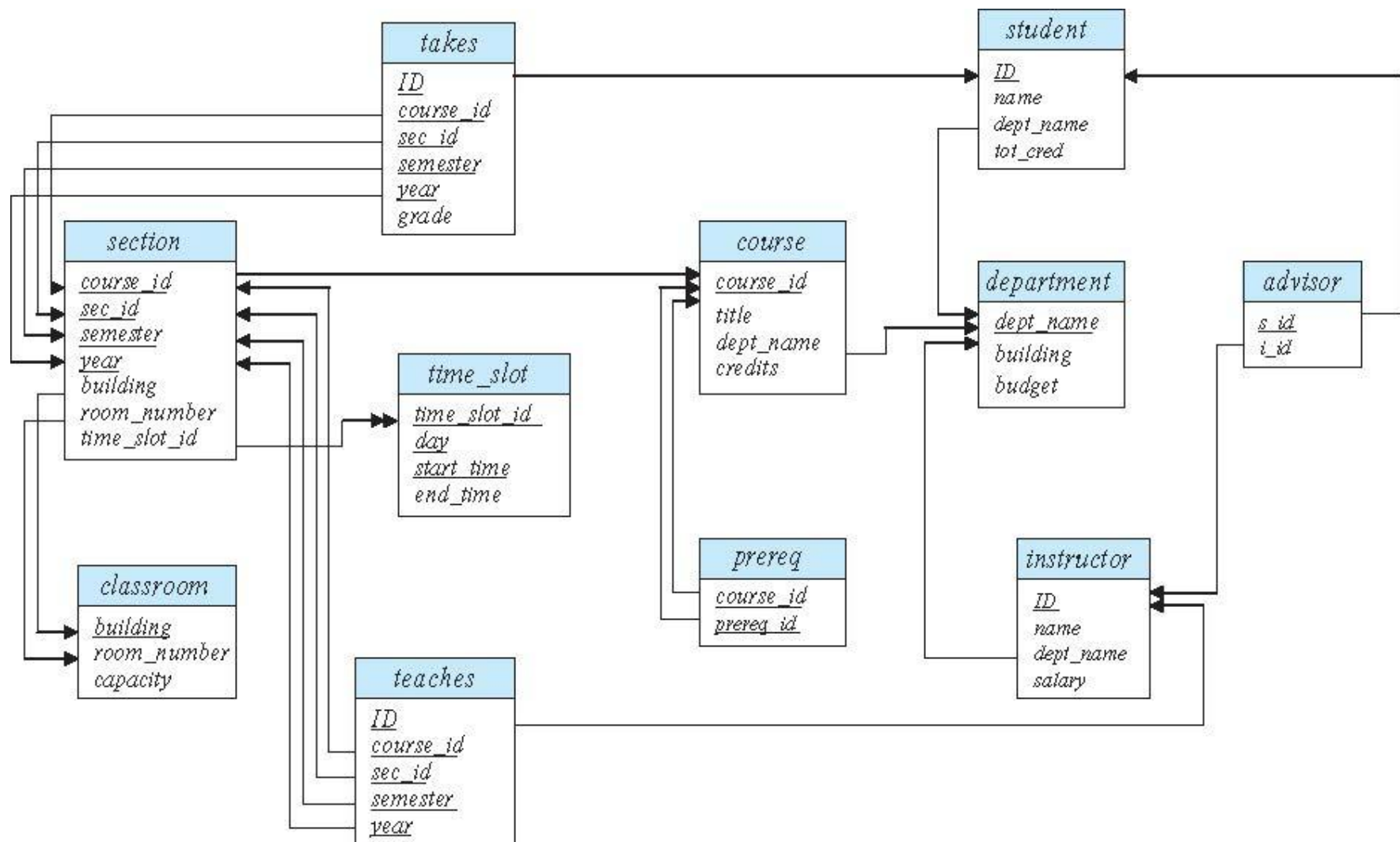


Lab 06

Schema Diagram for University Database



Find the highest salary of any instructor.

Solution steps (reminder)

What data attributes we need in the result set?

What data attributes are used in the condition?

In what tables do we have this information, what are the names of the attributes?

If there is more than one table, how we join the tables?

What other condition should be satisfied?

Find instructors earning the highest salary (there may be more than one with the same salary).

Solution steps:

What data attributes we need in the result set?

What data attributes are used in the condition?

In what tables do we have this information, what are the names of the attributes?

If there is more than one table, how we join the tables?

What other condition should be satisfied?

Hint: you may want to use a query of Problem 2 as a subquery in where clause here

Find the enrollment (=number of students) of each section of each course that was offered in Fall 2017.

Solution steps

What data attributes we need in the result set?

What data attributes are used in the condition?

In what tables do we have this information, what are the names of the attributes?

If there is more than one table, how we join the tables?

What other condition should be satisfied?

Outer join problem

Display a list of all instructors, showing each instructor's ID and the number of sections taught.

Make sure to show the number of sections as 0 for instructors who have not taught any section.

Your query should use ***an outer join, and should not use subqueries.***

SQL Problem 5

inserts, deletes, or updates in SQL

Add a Finance department student with the last name 'Green', and student ID = 3003

inserts, deletes, or updates in SQL

Disable Safe Updates

MySQLWorkbench=>Preferences=> SQL Editor=>Safe
Updates (uncheck)

SQL Problem 6

inserts, deletes, or updates in SQL

Change the last name of the student ID=3003 from Green to Brown

SQL Problem 7

inserts, deletes, or updates in SQL

Delete the student with ID=3003

inserts, deletes, or updates in SQL

Increase the salary of each instructor in the Comp. Sci. department by 10%.

Delete all courses that have never been offered (i.e. do not occur in the *section* relation).