

CSL303: Quiz 1

14 August 2025

Schema Description

Consider the following relational schema for a university database:

- **Student**(sID, sName, GPA)
 - **College**(cName, state, enrollment)
 - **Apply**(sID, cName, discipline, decision)
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Questions

Write the relational algebra expression and SQL statement for the following.

1. Find the names of all students who have applied to at least two different colleges and have a GPA greater than 3.5.
2. Find the names of colleges that have an enrollment greater than 20,000 and have not received any applications from students with a GPA less than 3.0.
3. For each college, find the number of students who have applied to it and the average GPA of those students.
4. Find the discipline that is most frequently applied to across all colleges.