Lab 6: Aggregation

Using the University Admissions database, write the following queries:

1. Calculate the average score in the Student table. (Hint: use the aggregation function **avg**.)

2. Calculate the lowest score for a student that applied for a computer science degree.

3. Calculate the average score for a student that applied for a computer science degree. (Hint: Be careful not to double count a student.)

4. Calculate the number of students applying to DCU. (Hint: Use the count function and the parameter to the count function should be the **distinct sID**s, for example **count(distinct sID)**.)

5. Calculate the amount the average score of students who have applied for computer science degree exceeds the average score of students who have applied for any degree other than computer science. (Hint: You will need subqueries in the FROM clause.)

6. Calculate the number of applicants to each university. (Hint: Use the **group by** clause.)

7. Calculate the maximum and minimum score for each university and degree. (Hint: Group by university and degree.)

8. Calculate the number of universities applied to by each student.

9. Calculate the number of universities applied to by each student including students that have not applied to any university. In this case return a count of 0.

10. List the universities that have more than 4 applications. (Hint: Use the **having** clause.)

11. List the universities that have more than 4 applicants.

12. List the degrees whose maximum applicants' score is less than the average score in the database.