

1. List the members of your group below. Underline your name.

2. Consider the relational schema from the previous class exercise: $R_1(B, N, C, D)$, representing the building name (B), room number (N), capacity (C), and description (D) of rooms on campus. Provide SQL queries for the following.
 - (a) Pairs of rooms (a, b) in the same building with the capacity of b greater than that of a .

 - (b) Pairs as in Question 2a, but with the added constraint that there is no room c in the same building with capacity between those of a and b .

 - (c) The rooms with the largest capacity in each building.

 - (d) The buildings with at least five rooms with capacity 100 or more.

3. Provide relational algebra equivalents of the SQL queries in Question 2.