

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

2. Consider the relational instance 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.

B	N	C	D
Neville	227	30	cramped seating, blackboard
Neville	120	25	nice chairs, whiteboard, videoconferencing
Neville	225	2	office
Neville	224	3	office
East Annex	225	10	lab
East Annex	227	3	office

Evaluate the following SQL queries on this instance.

(a) `select C,D from R1`

(b) `select *`
`from R1`
`where lower(D) like '%board%' and not lower(N) like '%office%'`

(c) `select min(S.N), sum(T.C)`
`from R1 S, R1 T`

3. Provide SQL queries for the following.

(a) The building names and room numbers of rooms with a capacity between 10 and 50.

(b) Pairs of rooms (a, b) in the same building with the capacity of b greater than that of a .

(c) Pairs as in Question 3b, but with the added constraint that there is no room c in the same building with capacity between those of a and b .

(d) The rooms with the largest capacities in each building.