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

2. Answer the following based on Codd’s paper.¹

   (a) How many paths are needed to support symmetric exploitation of an n-ary relation? Explain your answer.

   (b) Provide a relational algebra expression (using the algebra defined in class) for the active domain of a database composed of a single relation \( R(A, B, C) \).

   (c) Justify the claim made by Footnote 6 (page 382). Provide examples in SQL to support your answer.

3. Consider the student-course-enrollments database from the previous class exercise. Write a SQL query that generates a list of course IDs, course names, and the enrollment in each course with fewer than 10 students enrolled. The desired output is a list of tuples of the form \((i, t, n)\) where \(i\) is a course identifier, \(t\) is that course’s title, and \(n\) is the number of students enrolled in that course. If there is an enrollment record for a course with no known title then \(t\) should be null for that tuple.