## FINAL EXAM, 839 SPRING 2023

Write down your name here (last name first) AND student ID number:

Please wait until you are told to start working on the exam.

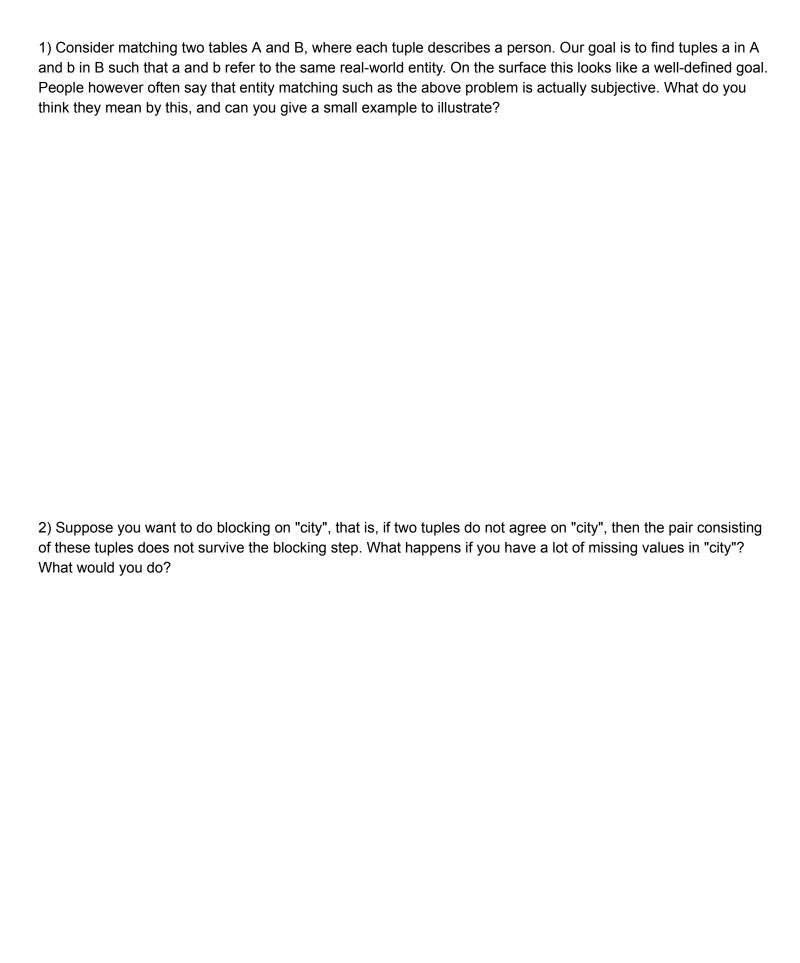
75 minutes, closed books and notes, no electronics, cheat sheet allowed.

If a question is ambiguous, please state your assumptions and then answer based on those assumptions. Please keep the assumptions reasonable.

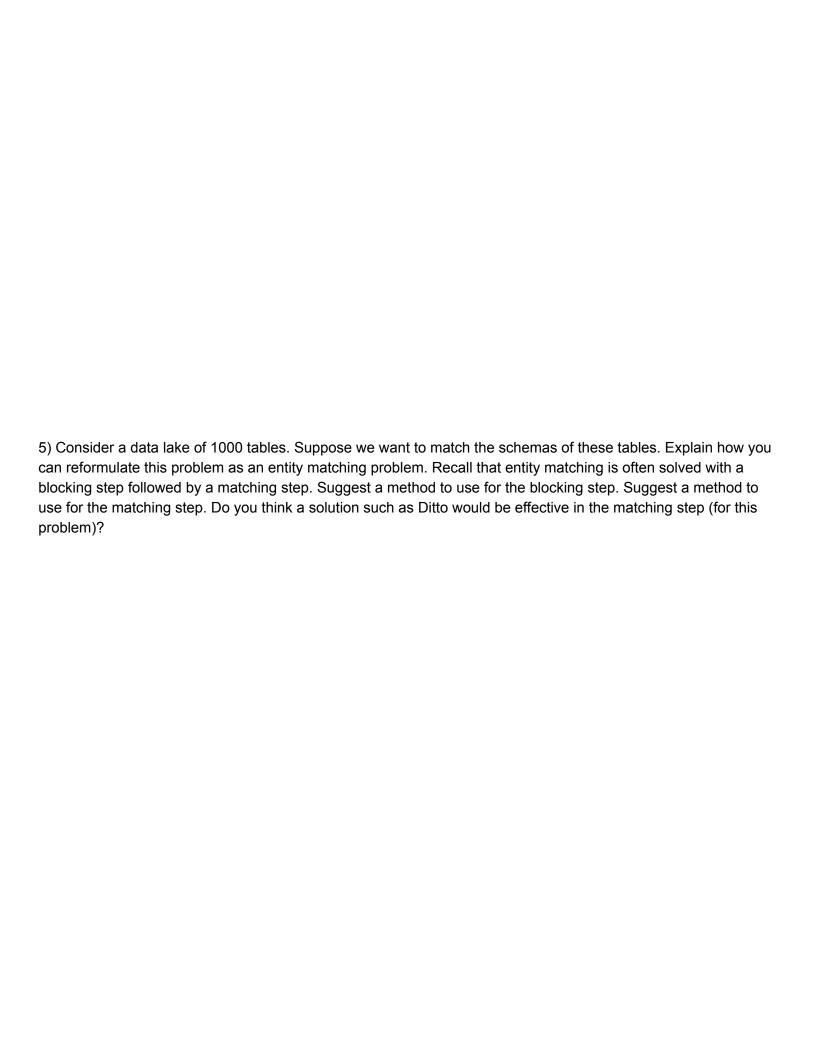
You can only use the space provided in this exam. Adding more space is not necessary and may result in points being deducted.

Some questions may be harder than others. You may want to handle easier questions first, delaying the more difficult questions to later.

10 Questions, 10 Points Each, for a Total of 100 Points.



3) Describe two scenarios where the Sparkly blocking solution may not achieve high recall.
4) Is schema matching transitive? That is, if we have determined that Column X of Table A matches Column Y of Table B, and that Column Y of Table B matches Column Z of Table C, can we conclude that Column X of Table A matches Column Z of Table C?





7) Explain and contrast data warehouse and data lake.
8) Give a small example of a star schema for a data warehouse. Name the fact table, the dimension tables, and the dimension attributes. This question only asks for the schema, you don't need to list data instances. You can describe the schema of a table like this: Emp(eid, name, salary).

9) Define data gove	ernance and give one	example of a data gove	rnance problem.	
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10) Briefly explain the idea behind data mesh. Suppose a company wants to implement a data mesh. Discuss at least one major challenge that you think the company will face.