Goyo Lozano Palacio:
We divided part 1 by assigning each team member 1-2 specific questions so they could focus on one database and understand its contents. For part 2, we discussed the best metrics as a group and assigned one question for each member who had only completed one question or had simpler queries in part 1.

I completed questions 2 and 3 from part 1 and helped translate the vague asks from part 2 into precise mathematical terms that facilitated our SQL code and analysis. Furthermore, I completed question 2 from part 2 and combined our work into the necessary documents to turn in as a team.

In this Lab, I learned that a systematic method of breaking each question into smaller steps makes the work more manageable. For instance, for part 2, we first defined the metrics we wanted so we could experiment with SQL and find the right data for our analysis. This method helped keep our progress organized. I also learned that brainstorming and having a visual image of our answers proved essential in creating a shared understanding of how we approached vague questions, especially in step 2. Visualizing our task simplified the translation of vague terms into specific metrics we could use to design our SQL code. For example, for question 3, we used a whiteboard to define how we would qualify density and compare different cities across ten years. Finally, I learned that working together helped us solve challenges faster and it allowed us to combine our efforts to produce better quality of work and analysis.

Rachel Chen:
For the Lab 1 project, our team began with a meeting to outline the requirements and dataset together. We then tried to divide Part 1 and Part 2 equally and set deadlines for each section. Each team member initially worked independently to solve their assigned problems, and we reconvened at each deadline to discuss any issues that needed further attention.

I was responsible for Part 1, Questions 5 and 6. In terms of Part 2, we discussed the metrics together and I completed Question 1.

Lab 1 provided an excellent opportunity to reinforce what I learned in class, deepening my understanding of SQL's real-world applications. Our group work was both well-allocated and effective, enhancing our individual problem-solving and analytical skills while fostering collaboration. The most interesting aspect was helping each other debug code and sparking each other’s creativity. For example, in Part 1, Question 8, we worked together to filter out irrelevant skills, specifically focusing on filtering “R” skills. Despite our best efforts, we couldn’t find a perfect solution. With assistance from the professor, I realized that approaching problems with flexibility and adaptability is a valuable problem-solving technique.

Ashley Yu
We divided Part 1 of the assignment across each team member. Some members were allocated 2 questions, while the rest of the team took on 1 question. For those who only had 1 question from Part 1, they were assigned another question from Part 2.

I am responsible for Questions 7 and 8 of Part 1.

This is the first time I've retrieved and analyzed data from an actual database. It was an interesting and thought-provoking process. Through the patterns identified, I was surprised to discover that the demand for different coding skills can vary quite significantly across regions and that certain job titles increase the likelihood of targeting desired positions. For job-seekers, these insights are invaluable because they offer a level of strategic guidance that cannot be achieved through standard filters on platforms like LinkedIn. By applying these insights, job-seekers are able to refine their search strategies accordingly, improving their alignment with market demands and enhancing their chances of employment success.

Additionally, I learned a valuable approach for data extraction and analysis while working on Question 8. I encountered a challenge in filtering out jobs requiring R coding skills, as some listings included unrelated skills with "R" in their names, like ARRT (R), a radiography certification. After multiple attempts and a discussion with the professor, I discovered that the approach of grouping R skill names with the top 10 most postings is particularly effective. This technique captures 90% of the desired data while neatly eliminating irrelevant results. This experience allow me to fully understand the idea that solving problems with a statistical approach can be more effective than fancy techniques sometimes.

Jameson Lajoie
We divided Part 1 of the assignment across each team member. Some members were allocated 2 questions, while the rest of the team took on 1 question. For those who only had 1 question from Part 1, they were assigned another question from Part 2.
Throughout this assignment, I was able to get a better grasp on handling, cleaning, and interpreting data. This lab reinforced many of the skills that were emphasized in class - part 1 mostly focused on filtering data to retrieve specific metrics or data entries for a particular set of variables.

This was my first major lab working in SQL. Some of the major lessons I took away from the assignment were:

- Previewing is key using the DESC command allows you to get a better understanding of what your dataset looks like.
- Fully familiarizing yourself with the different tables and columns helps you better connect ideas between tables and using commands that require the joining of multiple tables
- Lastly, visualizing what your main goal of the query is before typing any code allows you to see the big picture of the required task and data analysis.

Ragini Beri

Hey , I am Ragini Beri, one of the members of one of the most collaborative teams. In our team, we were all luckily willing to take any question which made it a rather more tricky job to divide. However, amongst the five of us, three people did two Part -one questions and the remaining one question each and the brainstorming and the full two Part -two questions were taken by the other two, I was one of those. I was responsible for Part-I Q4 and Part-2 Q3. We divided the work and decided on the meetings way early on to mitigate any last minute hassle.
Everybody did their role pretty well. I was stuck on one of the part-two questions and did a couple of iterations before seeking help. A few days back we were all sitting together, and together my teammates broke the problem, giving me clarity which made the problem and write the code easily and efficiently.

One thing which was definitely a game changer for me personally was to ask ChatGPT to explain the questions by breaking into smaller steps rather than state away jumping to coding. On the surface I struggled to write the query, missing the big logical question in front of us. We as a team did find the “R” substring in the string in Linkedin related SQL questions. It took a lot of hits and trials to see, we ended with the correct code to get the R skill. One interesting thing was to see how to categorize the population density of the counties based on the percentiles in mySQL. I had previously worked on SAS where there was a separate percentile function which made it easier to group. The comparison and the different ways in which I classified in SQL was vivid. It was fun and a good learning experience through this Lab. I feel I should have not hesitated and rather reached out to my peers earlier when I faced difficulty with the code. Key Takeaway for me will be breaking the SQL problem in multiple steps and then figuring out the meaning behind certain numbers to get a good readable visualization.