While there didn't appear to be any build errors, I got the same build error pop-up box when running the program that I got with my own and with other codes that I have reviewed. I think that this may be from an issue with the database or with Visual Studio itself and not related to the actual code in the project.

I thought the code was very clean and thorough. I appreciate the comments labeling the function of each button. I also really like the inclusion of the try-catch for saving any changes and the message box indicating that either the changes were saved successfully or that they failed to save. I thought having the exit button save/update any new inputs upon exiting the form was a really smart idea too. It’s not something I thought to include in mine, but it’s a great failsafe in case the user neglects to hit the save button after entering new data. As far as the GUI, I liked that it was clear and simple, and easy for a user to understand and navigate. In the message boxes I appreciated the inclusion of the names of the cities with the highest and lowest populations along with the population number itself.

I didn’t notice any dead or repetitive code; it seemed nice and concise. The only things that I kind of noted were the if statements for showing the high/low population message boxes if they were not null. I think these types of statements are good in practice to cover your bases and prevent the application from throwing exceptions, but they seem kind of unnecessary here, since the table settings don’t allow for any of the populations to be null in the first place.

As far as in comparison with my code, they seem to look similar and function much the same. The main difference I see is that here the buttons are both calculating and displaying the results (and nice job applying what we just learned with the lambda), whereas my results were calculated through queries and displayed with the buttons. I didn’t think to do it that way, but they both accomplish the same goal, so I guess it doesn’t really matter, and really comes down to programmer preference. The only other difference I see is that I included buttons to perform all of the sorting functions, but because the data grid view can accomplish those same functions by clicking on the column headers, I don’t think having the buttons is explicitly necessary.

Overall, I think that I would prefer Josh’s code to mine because I like the way the output was displayed better, and he included several smart things just as precautions for the user that I think are a good idea to have. I also think that doing the calculations in the buttons could be a simpler approach for someone who may struggle with SQL or with creating queries.