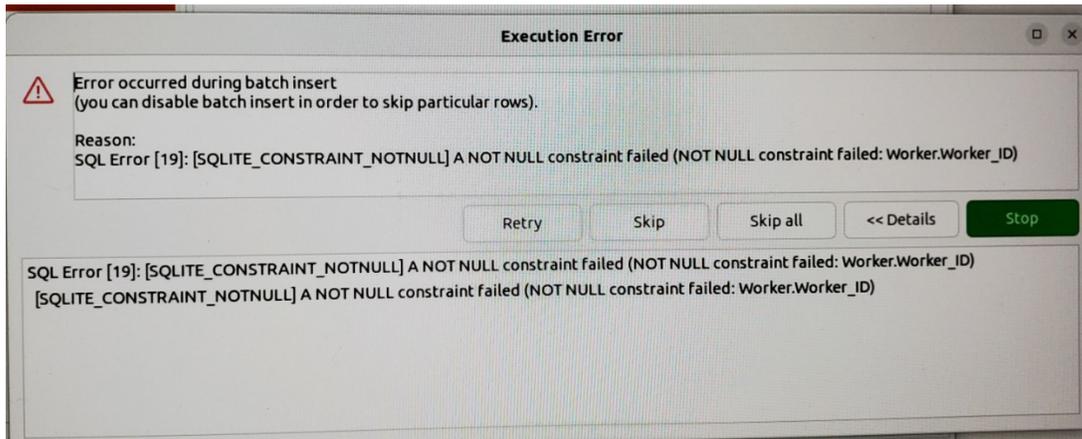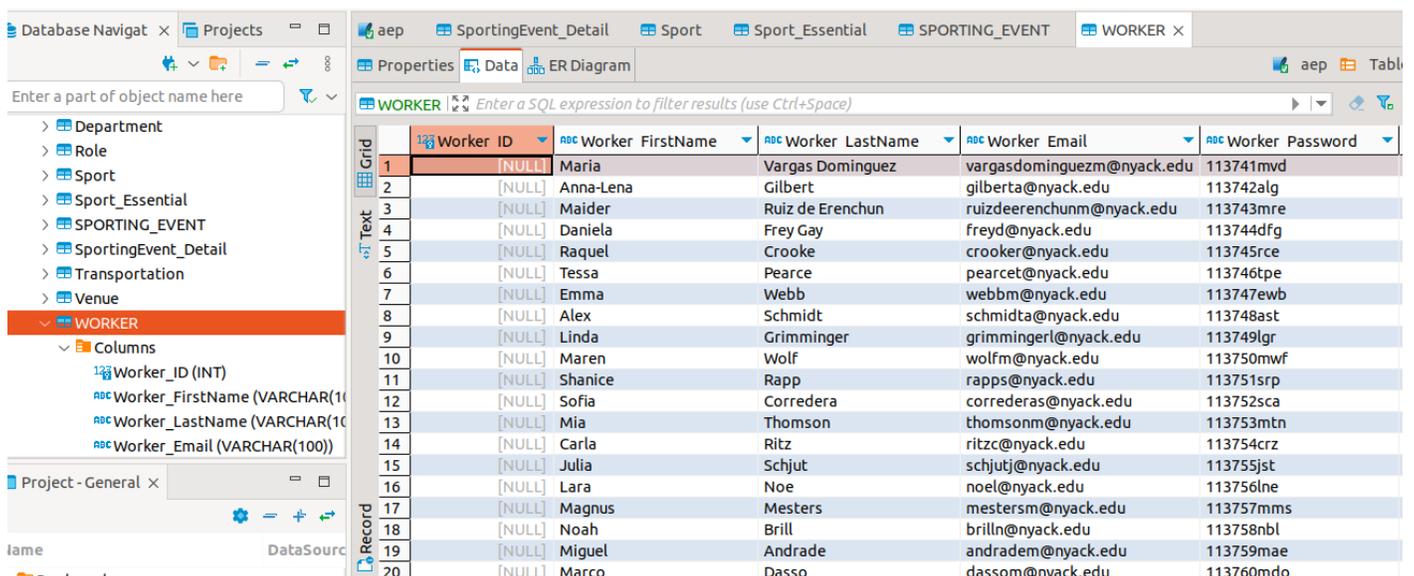## February Journal

This month, I learned how to use DBeaver Application for our database. Creating the tables at first was exciting and a relief, and I thought everything would go smoothly. My colleague created some of the independent tables and I created the rest and then imported the data, however, when it was time to add the data for the dependent tables, it got complicated; I was getting **SQL Error 19** about Constraints.

When I imported the data for the SportsEvent table, an independent table, it was all good, it didn't get any errors. However, there's the Error when it comes to the dependent tables: SportsEvent_Detail and Worker tables. What it also does is it would create another column for Worker_ID on the left all NULL

and our original Worker_ID column on the right, which is wrong because it is our Primary Key, it was supposed to be on the left, the first column for every table. I don't understand why it does that, so I asked my colleague Venus, and my Project managers but they didn't also have an idea, so I reached out to my professor.

The next day, Karina and Michael, the coders, asked the Database team to change all VARCHARs data type to TEXT or String because SQLAlchemy datatypes don't have CHAR nor VARCHAR. I was skeptical at first because I thought TEXT and String are limited to Alphabets only, but I was willing to try and told them I could work on it later the night or at midnight because I have work, thankfully my colleague Venus is available. Venus changed everything because she could not edit the tables anymore, she said it was locked. So, she deleted what we first did and started all over again, changing the VARCHAR to INTEGER and TEXT. Once she created all the tables and added some of the data, that's when I added the rest.

Later that night, Karina said it worked, and we are both very happy. The fog was lifted, I was able to move on and stopped thinking about what was wrong with our database. I understood that not all database management tools have CHAR or VARCHAR, some tools are more straightforward such as DBeaver which only cares about Blob, Integer, and Numeric, Real, and Text. On the programming side, I learned about the SQLAlchemy module which is what we need to use to build a database-driven application. Overall, I am glad that the programmers can connect to our database, and I feel relieved, on the other side it saddened me because I realized how much more I still need to learn about databases and programming.