**Reflection**

From the start, it was easy to choose a fictional company to work on; we were able to find something we all enjoyed and were interested in. Creating the relational database design with LucidChart was simple, and allowed us to export SQL code for the creation of the tables. We worked well together as a team, so collaboration was smooth.

Still, there were improvements we could have made. When creating the fake data, we could have looked at what queries are needed and then create the fake data based on that. We had to slightly change our fake data after realizing one of the queries required an outer join. Additionally, although all tables felt necessary, inserting data into all eight tables took a long time. We used a few external tools to help, including Google Sheets, and an online random address generator, but even entering data in Visual Studio’s Data View was tedious. Therefore, we wish we had known of a quick way to generate and insert fake data into a database.

We had two in-person meetings in which we discussed and worked on the project. During our first meeting, we created the relational database design together using LucidChart’s collaboration features. Catherine created the fake data for the company on Google Sheets based on the relational database design. Meanwhile, Brandon and Bradley created the database with SQL in Visual Studio. Once the fake data was complete, they wrote the code to insert it into the appropriate tables and create the foreign keys. Then, we ran the database creation code on our separate computers to test if it was working properly.

Everyone participated in writing queries. Catherine created three queries: one to display all the records on each table, one to display the number of reward members Bida Candy Store has, and one to display who the active employees were for each store. Bradley created the left outer join query, which displayed all the products Bida Candy Store has and whether or not the products have a supplier listed in the database. As mentioned previously, this also involved modifying the database to “NULL” some values. Brandon created the subquery query, which displayed the name and the price of the products that had prices greater than the average prices of the products.

No issues arose when working together. It was fairly challenging to find meeting times that worked for all three group members, but the benefits of working together in person outweighed this. Because each part of the project was interrelated, it would have been difficult to complete the work remotely. Overall, we feel the work was divided evenly, and would work together in this team again.