GROUP MEMBERS:

Curt Justine Reodique
Shaine S. SanJuan
Faith Ann Sanado
Susaine Rico
Mhelarry Valeza
Rechelle Borbe

Reflection Paper Week 11**: Building Our Inventory Management Database**

As a group, creating this inventory management database was a great learning experience for all of us. At first, it felt a bit overwhelming, but as we worked together, everything started to make more sense. We designed the database to keep track of users, products, suppliers, customers, orders, and stock movements. It was important for us to make sure the system was well-organized, secure, and easy to maintain.

We made sure each table had a clear purpose, and we used relationships to connect everything properly. This helped us avoid duplicate data and keep things neat. One thing we really focused on was making the system realistic. We added roles for users like admin, manager, and staff to reflect how a real business would work. We also included a log to track what users are doing, which can help with accountability and transparency. To make the system more useful, we created stored procedures to add and reduce stock automatically, and even added one to fill the database with thousands of sample products for testing. These features made us think more deeply about how real businesses manage their inventory.

We also realized how important security is—especially when handling user passwords. Even though we used placeholder values for now, it reminded us that in real systems, data protection is a top priority. Overall, this project taught us a lot about working as a team, thinking critically, and applying what we learned to something practical. It wasn't just about writing code—it was about building something that could actually be used in the real world.