**Group Name:** DevTools

**Team Members & Times Available:**

* **Vincent Ryan:** Monday-Friday (6:30PM-8:30PM CST)
* **Paul Singleton:** Monday-Friday (6:30PM-8:30PM CST)

**Selected Case Study:** Bacchus Case Study

**Business Rules:**

1. **Employee Management:**

* Each employee is assigned a unique ID and provided with login credentials for the system.
* Daily task logs are maintained for each employee, and weekly summaries are generated to track performance and productivity.

1. **Inventory Management:**

* Every type of supply (such as bottles, corks, labels, boxes, vats, tubing) is cataloged with a unique ID and a supplier reference.
* Inventory levels are checked daily, and alerts are generated for items that fall below a predefined threshold.

1. **Supplier Management:**

* Suppliers are given unique IDs, and their delivery performance is tracked with detailed records of contact info, delivery times, and quality of supplies.
* Monthly reviews are conducted to evaluate supplier reliability and ensure compliance with delivery schedules.

1. **Product Management:**

* Each wine variant (e.g., Merlot, Cabernet, Chablis, Chardonnay) is documented with a unique product ID, description, and historical sales data.
* Production efficiency is monitored by logging the start and end times of each batch, along with any issues encountered during production.

1. **Sales and Distribution:**

* Distributors have unique IDs, with records of their past orders, preferences, and feedback.
* An online portal allows distributors to place orders, track order status in real-time, and receive notifications about promotions and new products.
* Detailed sales analytics are generated monthly, showing trends, peaks, and troughs for each wine type.

**Assumptions:**

1. The system will be integrated into the current IT framework of Bacchus Winery, with minimal disruptions.
2. All staff and distributors will be trained on how to use the new online system for ordering and tracking.
3. Existing historical data on inventory, sales, and employee performance will be imported into the new system to ensure seamless tracking and reporting.

**ERD Design:**