**Jose Flores, Laura Makokha**

**Milestone # 1: Bacchus Case Study**

**5/3/2025**

**Bacchus Winery**

**Business Rules**

* Wine Production:
* Each wine (Merlot, Cabernet, Chablis, Chardonnay) has its own name or ID to tell it apart from the others.
* The winery keeps track of how much of each type of wine they have.
* Supplies & Inventory:
* Suppliers bring things like bottles, corks, and other materials regularly, and the date they arrive is recorded.
* For every supply delivery, there is a planned delivery date and the actual delivery date these are compared to see if deliveries are late.
* Distribution & Orders:
* Distributors (people or companies who sell the wine) can sell more than one kind of wine.
* Distributors should be able to order wine online and check the status of their orders.
* Roles of Existing Employees:
* The hours each employee works are recorded over the last four quarters.
* Each employee works in one main area, like Finance, Marketing, Production, or Distribution.
* The winery wants monthly reports that show:
* If supplies are being delivered late
* Which wines are selling well or not
* The winery tracks each type of supply like bottles or labels, how many they have, and which supplier it came from.

**Assumptions:**

All suppliers deliver monthly or per scheduled.

The inventory system is updated automatically with each new supply delivery.

Distributors order online using a simple e-commerce interface that allows tracking of their orders.

Each wine has a method of tracking sales, and all wine types are stored in the same inventory system.

Distributors are linked to their respective wine orders through the system, and they can only place orders based on the available stock.

Employees can belong to only one department, and their work hours are tracked on a quarterly basis for reporting.

