Case Study chosen: Bacchus

Members: Brijette Baboolal

**Create a list of business rules for your case study, including any assumptions you make.**

1. Supply Chain Management

* Are all suppliers delivering their goods on time each month?
* Is there a recurring delay in delivery from any specific supplier?
* Do we have an efficient method for tracking and reordering supplies online?
* Are supply inventory levels consistently monitored to avoid shortages?

1. Inventory and Production Management
   * Are all raw materials and wine supplies (bottles, labels, etc.) sufficiently stocked before production?
   * Is the production line operating efficiently with minimal downtime?
   * Are batch records kept for all wines produced for tracking and compliance?
   * Are there bottlenecks in the production process due to inventory issues?
2. Distribution and Sales
   * Which wines are selling as expected, and which are underperforming?
   * Are all distributors carrying the wines assigned to them?
   * Can distributors place and track orders online?
   * Are there any patterns in sales data that indicate changing customer preferences?
3. Employee and Human Resource Management
   * How many hours has each employee worked in the past quarter?
   * Are time logs and payroll aligned and error-free?
   * Are any departments understaffed or overworked based on logged hours?
   * Is employee productivity being tracked and reviewed regularly?

Assumptions Made:

* Each wine type has its own unique production process and may have different supply needs.
* The winery does not currently have an automated system for inventory, distribution, or employee time tracking.
* Distributors are external partners with internet access and some technical capability.
* Data on sales, deliveries, and employee time is currently maintained manually or semi-manually.
* Stan and Davis have authority to approve new systems and processes.

Initial ERD:

