**Group 3**

**Milestone 1**

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**Case Study:**

Bacchus Winery

**Business Rules:**

Employees:

* Each employee has a unique employee ID.
* Each employee has a name, address, and phone number.
* Each employee is assigned to a specific department (Finance, Marketing, Production, Distribution).
* Each employee has a job title and salary.
* Each employee has a supervisor (except for the highest-level managers).
* Each employee works a certain number of hours per week.

Wines:

* Each wine has a unique wine ID.
* Each wine has a name and type (Merlot, Cabernet, Chablis, Chardonnay).
* Each wine has a production cost and selling price.
* Each wine is produced in a specific quantity per year.

Suppliers:

* Each supplier has a unique supplier ID.
* Each supplier has a name and address.
* Each supplier provides specific supplies (bottles, corks, labels, boxes, vats, tubing).
* Each supplier has a contact person and phone number.

Orders:

* Each order has a unique order ID.
* Each order is placed by a specific employee (in the Distribution department).
* Each order is for a specific quantity of a specific wine.
* Each order is shipped to a specific distributor.
* Each order has a ship date and delivery date.

Inventory:

* Each inventory item has a unique item ID.
* Each inventory item has a description and quantity.
* Each inventory item is associated with a specific supplier.
* Each inventory item is used in the production of a specific wine.

Assumptions:

* Each employee works for only one department.
* Each wine is produced from grapes grown by the winery.
* Each order is for a single wine type.
* Inventory items are not shared across different wines.

**Initial ERD:**

