**Green Team:**

Tabari Harvey

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**MILESTONE #1:**

Find your group area and introduce yourself. Include when and how you will be available during the week. Read through the case studies and, as a group, select one for your final project. Create a list of business rules for your case study, including any assumptions you make.  Using those business rules, create an initial ERD to satisfy those rules.  The deliverable this week is a Word document that has your group name at the top, members of the team, which case study was selected, business rules, and an initial ERD.

**CASE STUDY**

The case study that we have chosen for this project is Bacchus Winery. The case study reads:

Stan and Davis Bacchus inherited their winery from their father, George, three years ago upon his retirement. While they both appreciate all the hard work their father put into the business, they are anxious to incorporate new business methods to help them improve their products and customer service.

When they started running the winery, the owners decided to keep all existing personnel in place, hoping to effect minimum change during the turnover. Presently, they employ Janet Collins, who is in charge of all finances and payroll; Roz Murphy, who heads up the marketing department, she has one assistant, Bob Ulrich, working for her; Henry Doyle, who manages the production line, as well as 20 employees; and Maria Costanza, who is in charge of distribution.

Bacchus Winery grows the grapes needed to make

* Merlot, a Cabernet, a Chablis, and a Chardonnay.
* They have been receiving their supplies; bottles and corks from one supplier, labels and boxes from another, and vats and tubing from a third supplier, each of which ships the components every month or so.
* Stan and Davis are responsible for keeping track of the supply inventory and would like to find a more efficient method of keeping track and ordering supplies, perhaps over the internet.
* Maria, who is responsible for distribution, would like their distributors to be able to order online, and to be able to track shipments.

Stan and Davis know the yearly ‘snapshot’ of the business is due in a few weeks, and need the information to determine the state of the inventory, the distribution and the employees. They need information on…

* Are all suppliers delivering on time?
* Is there a large gap between expected delivery and actual delivery?
* A month by month report should show problem areas.
* The wine distribution, are all wines selling as they thought?
* Is one wine not selling?
* Which distributor carries which wine?
* Employee time. During the last four quarters, how many hours did each employee work?

**BUSINESS RULES:**

After looking at the case study, the business rules that we have came up with are listed below:

1. **Bacchus Winery produces four types of wine**: Merlot, Cabernet, Chablis, and Chardonnay.
2. **Employees**: The case study specifies the roles of key employees:
   1. Janet Collins manages finances and payroll
   2. Roz Murphy heads marketing with an assistant, Bob Ulrich
   3. Henry Doyle manages production and has 20 employees working under him
   4. Maria Costanza is responsible for distribution
3. **Suppliers**: We need to track three suppliers for bottles, corks, labels/boxes, and vats/tubing.
4. **Inventory:** We’ll need to track quantities of inventory items (ex: bottles, corks, labels/boxes and vats/tubing) to manage supplies.
5. **Wine Sales:** Bacchus Winery needs to track which wine types are selling, who the distributors are, and sales data.
6. **Employee Hours:** The business needs to track employee hours worked across the last four quarters.
7. **Supplier Deliveries**: We need to track when and how each supplier delivers their supplies, including discrepancies between expected and actual delivery dates.

Also, we have a table of Assumptions based on information that is not available, and they are:

1. We are assuming inventory is tracked in units (ex: number of bottles, corks, etc.).
2. Distributors will order wine online and track shipments.
3. Employee work hours will be tracked over the last four quarters.
4. Prices may vary for each wine, and we need to account for inventory restocking as needed.

**INITIAL ERD:**

A screenshot of a computer

AI-generated content may be incorrect.After the business rules were created and approved by us, Tabari Harvey created the initial ERD. It was reviewed and approved by everyone in the team, and is shown below: