

Team Members:

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Case Study: Bacchus Winery

Business Rules:

- 1) Employees should log their work hours weekly.
- 2) Orders include, date, shipping date, and delivery status.
- 3) The winery employs multiple staff members, each assigned to a specific department (Finance, Marketing, Production, Distribution)
- 4) Each employee is identified by an ID, with details including name, job title, department, and work hours
- 5) Each department should have one manager.
- 6) Bacchus Winery produces four types of wine: Merlot, Cabernet, Chablis and Chardonnay.
- 7) Each supplier is identified by a Supplier ID, with details including name, contact info, and the types of supplies provided.

Assumptions:

1. Employee Management:
 - a. Each employee is assigned to only one department.
 - b. Employees can work multiple shifts within a quarter, but their total hours will be calculated quarterly.
 - c. Employee roles and responsibilities do not overlap between departments.
2. Supply Management:
 - a. Each supplier exclusively provides specific types of supplies (like, one for bottles and another for label paper).
 - b. All supplies are delivered directly to the winery.
 - c. Supply deliveries are tracked by their order date, expected delivery date, and actual delivery date.
3. Wine Production:
 - a. Each type of wine (Merlot, Cabernet, Chablis, Chardonnay) has a unique wine ID.
 - b. Wines are produced in batches, but the database will only track total production and distribution quantities.
 - c. The winery can only produce the four specific types of wine.
4. Distribution
 - a. Each distributor can order multiple types of wine.
 - b. Distributors are responsible for their own transportation and handling of wine orders.

- c. Distribution orders are tracked by their order date, wine type, quantity and delivery status.

5. Tracking Inventory:

- a. Supplies are tracked by type, quantity, supplier, and the dates of receipt.
- b. Inventory quantities are updated when supplies are received or used in production.
- c. Stan and Davis are responsible for placing supply orders.

6. Employee Time Tracking:

- a. Employee work hours are recorded in hours per quarter.
- b. Work hours include all tasks performed within their department.

7. Online Ordering System:

- a. The system will let distributors see what's in stock.
- b. The system will show both expected and actual delivery dates for shipments.
- c. The system will allow distributors to place orders and track their status.
- d. Suppliers do not use the online system but are contacted manually for supply orders.

ERD:

