

Bacchus Winery

Green Team: Justin, Mark, Tabari, Austin

A large, dark blue, diagonal shape that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the image.

Introduction

Team Green

Justin - 20 years in telecommunications and currently Sr. Network Engineer at Verizon specializing network integration, optimization and outage restoral. Pursuing a Bachelors in Software Development

Mark - Route Salesman at Frito-Lay, and I'm pursuing a degree in Software Development.

Tabari - Navy veteran with a degree in criminal justice. Currently working in corrections and actively pursuing a degree in Software Development

Austin - Monorail Trainer for Walt Disney World with a degree in Biomedical Engineering, pursuing a Bachelors in Software Development

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Case Study - Bacchus Winery

Background

- Family run business inherited by Stan and Davis Bacchus three years ago
- Grows 4 types of grapes to make: Merlot, Cabernet, Chablis, Chardonnay
- Business relies on suppliers for materials: Bottles, corks, labels, vats, tubing

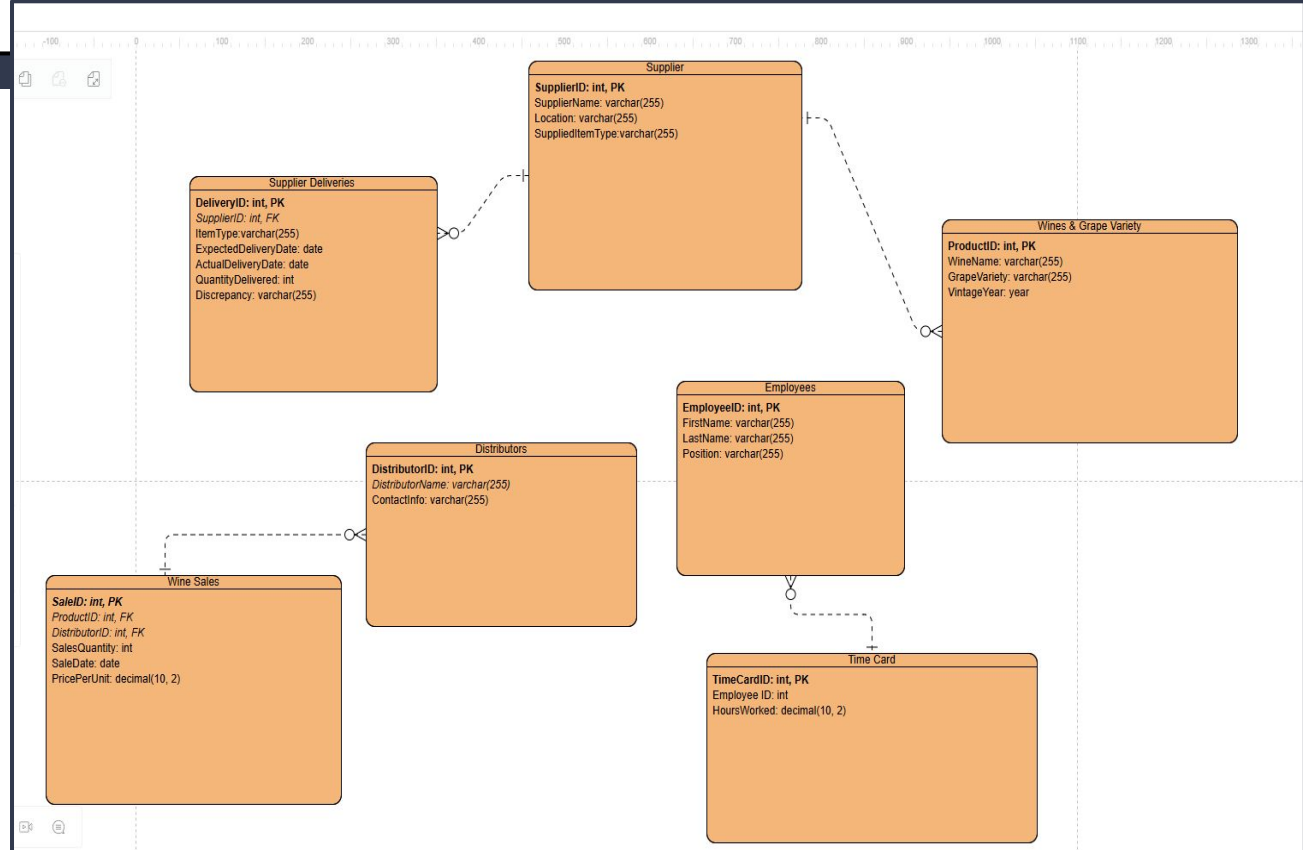
Business Goals

- Improve their products and customer service
- More efficient method to keep track and order supplies
- Enable distributors to keep track and place order supplies online

Business Rules

1. **Wine Production:** Merlot, Cabernet, Chablis, Chardonnay
2. **Employees and Role (No personnel changes)**
 - a. Janet Collins - Manages Finance and payroll
 - b. Roz Murphy - Head of Marketing (Bob Ulrich as assistant)
 - c. Henry Doyle - Manages production and 20 employees
 - d. Maria Costanza - Responsible for Distribution
3. **Inventory Management**
 - a. Track bottles, corks, labels, boxes, vats, tubing
 - b. Monitor supply levels and order tracking
4. **Wine Sales** - Track sales by wine type and distributor, identify top-selling wines
5. **Employee Hours Tracking**- Log work hours per employee per quarter
6. **Supplier Deliveries** - Track when and how each supplier delivers

Finalized ERD



Report #1

- This is a schedule report for the shipment of items that the winery has ordered
 - Bottles, Corks, Labels, Boxes, Vats, Tubing, Wine Barrels
- Information Given:
 - Delivery ID
 - Supplier Name
 - Item
 - Expected Delivery Date
 - Actual Delivery Date
 - Status of Delivery
 - Quantity Delivered

Delivery Schedule Report | Generated on: 03-09-2025 01:10:29 PM

Delivery ID: 1

Supplier Name: Put a cork in it

Item Type: Bottles

Expected Delivery Date: 2024-02-05

Actual Delivery Date: 2024-02-05

Shipment Delivery: On time

Quantity Delivered: 40,000

Delivery ID: 2

Supplier Name: Put a cork in it

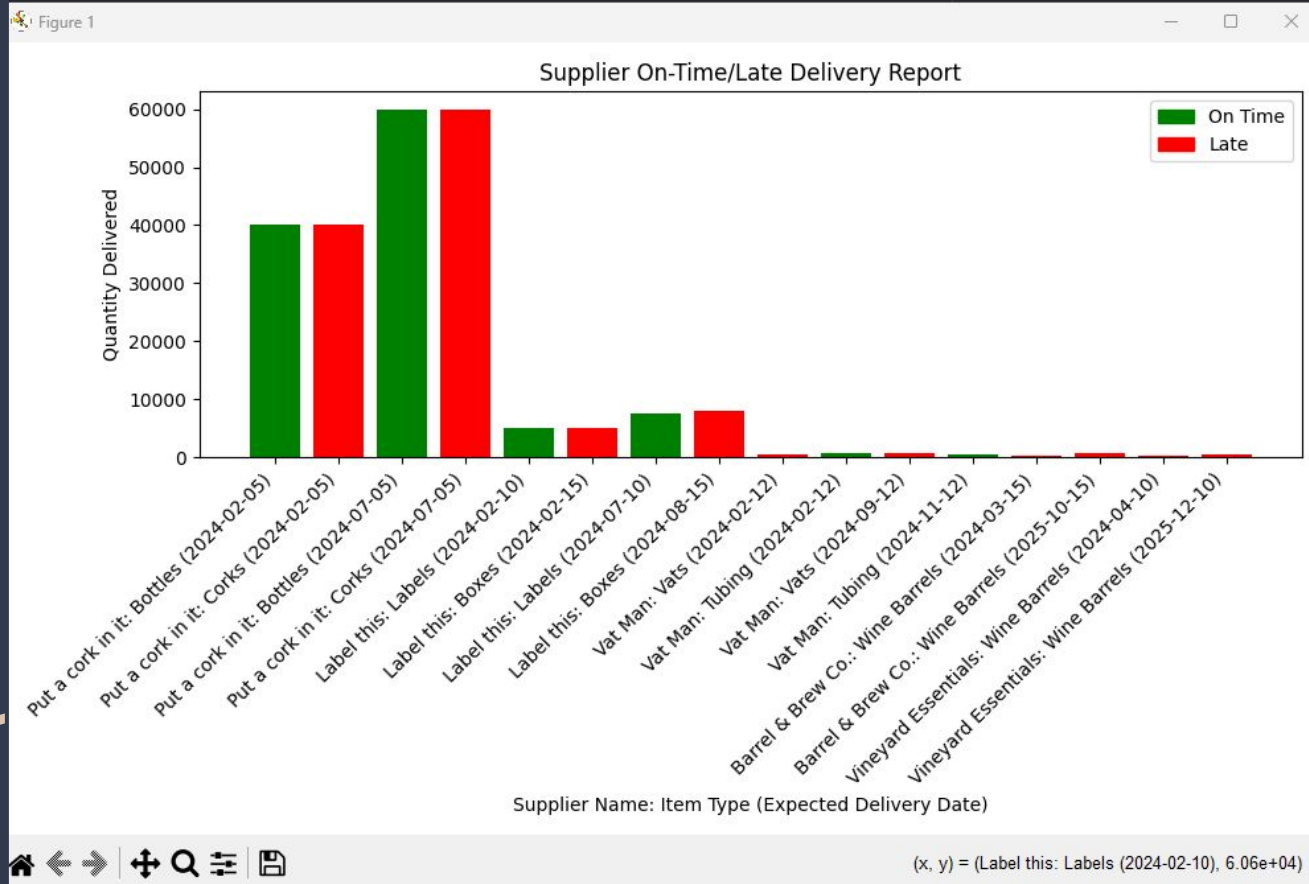
Item Type: Corks

Expected Delivery Date: 2024-02-05

Actual Delivery Date: 2024-02-15

Shipment Delivery: Was late

Quantity Delivered: 40,000



Report #2

- This is a wine sales report
- Information Given:
 - Wine Name
 - Distributor
 - Sales Quantity
 - Sales Date
 - Price Per Unit
 - Total Sales

Wine Sales Report | Generated on: 03-09-2025 01:10:29 PM

Wine Name: Austins Merlot Mystique

Distributor: Austin Spirits

Sales Quantity: 30,000

Sale Date: 2024-01-02

Price per Unit: \$20.99

Total Sales: \$629,700.00

Wine Name: Austins Merlot Mystique

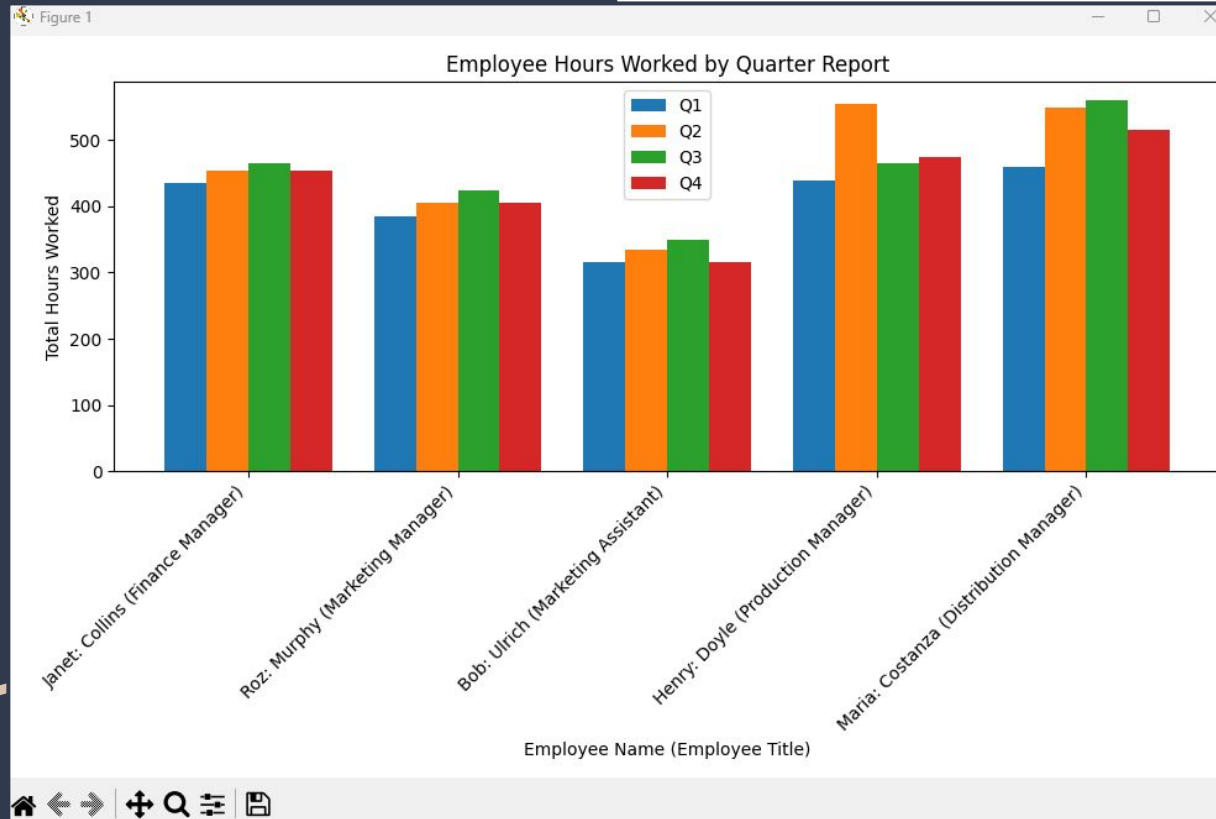
Distributor: Austin Spirits

Sales Quantity: 30,000

Sale Date: 2024-03-08

Price per Unit: \$20.99

Total Sales: \$629,700.00



Report #3

- Report for hours worked by employees
- Information Given:
 - Employee ID
 - First and Last Name
 - Position
 - Total Hours Worked for Quarters 1, 2, 3, and 4

Employee Worked Hours Report | Generated on: 03-09-2025 01:10:29 PM

Employee ID: 1

First Name: Janet

Last Name: Collins

Position: Finance Manager

Q1 Total Hours Worked: 435.00

Q2 Total Hours Worked: 455.00

Q3 Total Hours Worked: 465.00

Q4 Total Hours Worked: 455.00

Employee ID: 2

First Name: Roz

Last Name: Murphy

Position: Marketing Manager

Q1 Total Hours Worked: 385.00

Q2 Total Hours Worked: 405.00

Q3 Total Hours Worked: 425.00

Q4 Total Hours Worked: 405.00

Figure 1



Assumptions

1. Inventory is tracked in units
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
 - a. We need to account for inventory restocking as needed.

Conclusion

- Implemented **efficient inventory management** to track supplies and automate ordering.
- Developed a **sales tracking system** to monitor wine performance and distributor activity.
- Integrated **employee hours reporting** for workforce optimization.
- Established **supplier delivery monitoring** to ensure timely shipments.
- Provided **data-driven insights** to improve operations, enhance decision-making, and drive business growth.