

Bacchus Winery

Group 1

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CSD310-A339

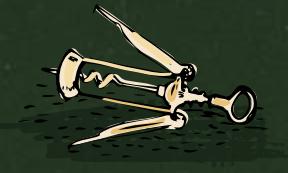


Case Study

Final ERD

Reports

Assumptions



Introduction

Group 1 consists of Miles, Nardos, Jessica, Joe, and Adrian. We had an opportunity to work on the Baccus Winery.

Introduction (cont'd)

We aim to modernize operations by:

- ❖ Improving inventory management
- ❖ Streamlining distribution
- ❖ Enhancing employee performance tracking

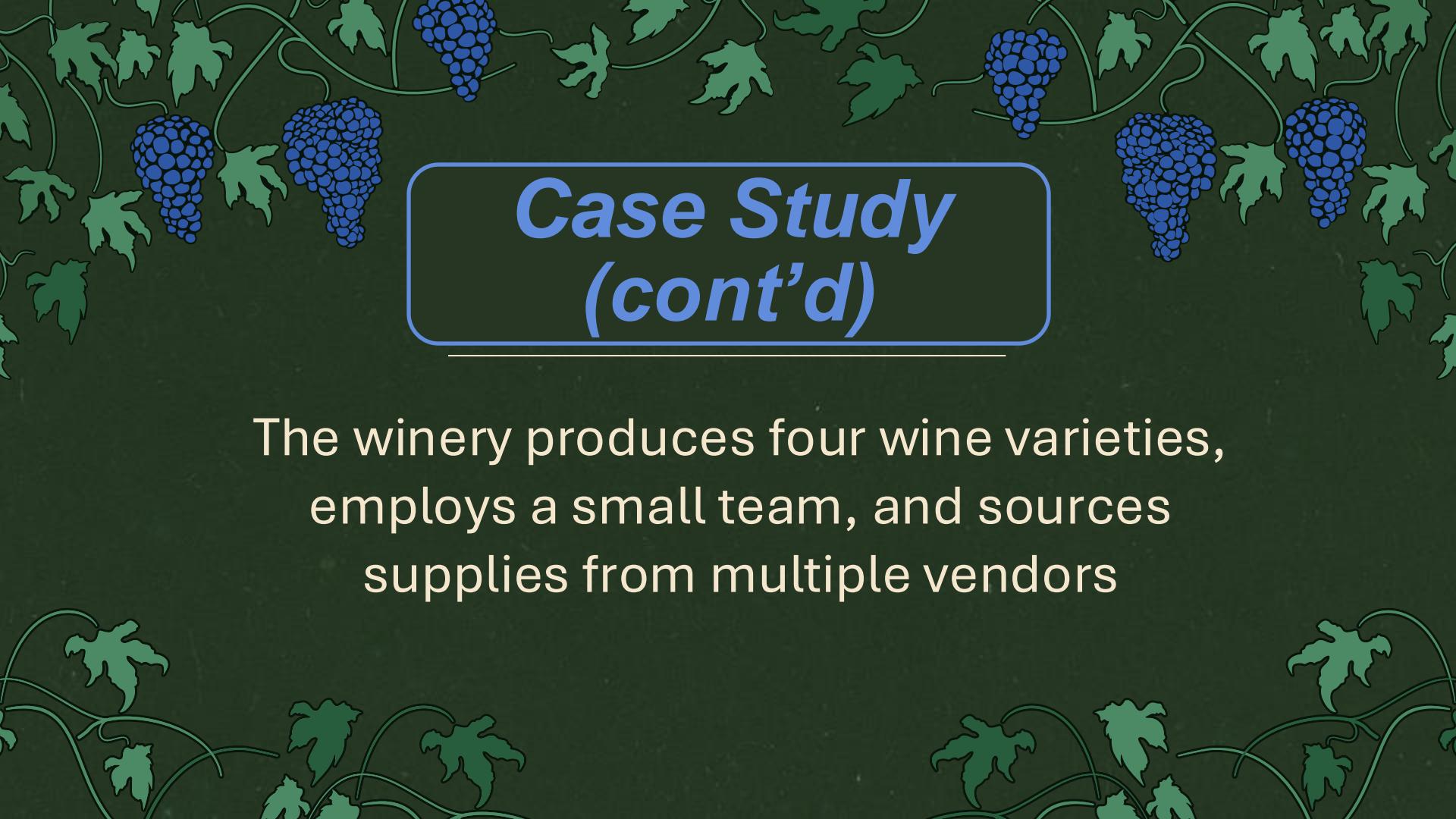
Goal

Our goal is to implement efficient systems that provide actionable insights to support better decision making and business growth



Case Study

Stan and Davis Bacchus inherited their family winery and aim to modernize operations while preserving its legacy.



Case Study (cont'd)

The winery produces four wine varieties,
employs a small team, and sources
supplies from multiple vendors

Key Challenges

- ❖ Inventory Management
- ❖ Distribution and Sales
- ❖ Employee Tracking



Inventory Management

- ❖ Manual supply tracking is inefficient
 - ❖ Seeking an online system for better control
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Distribution and Sales

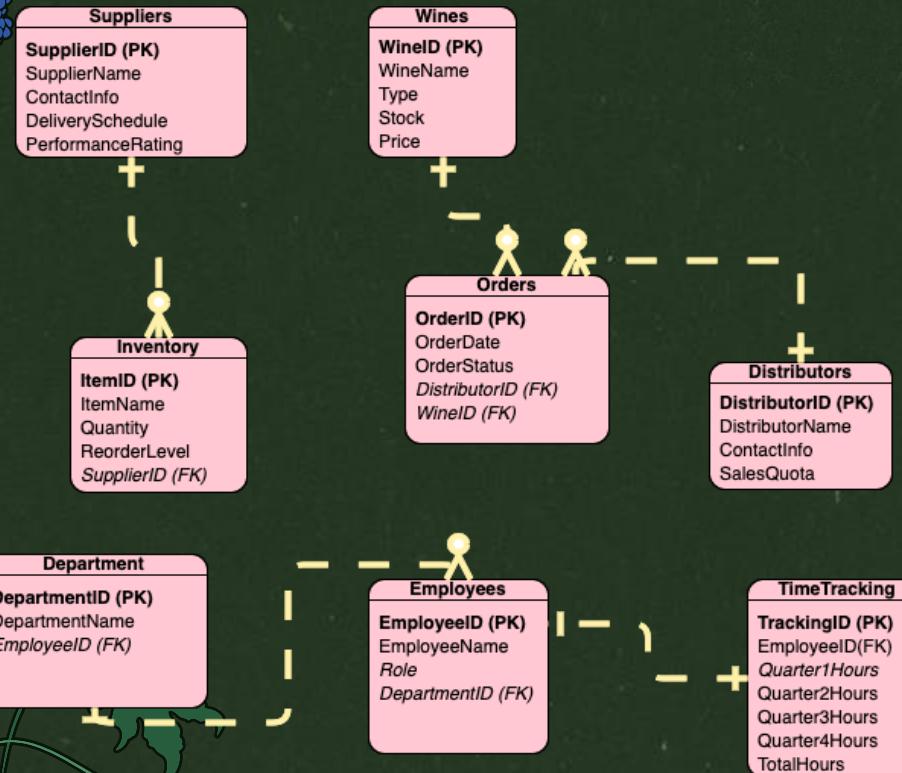
- ❖ Distributors orders and shipment tracking should be online
 - ❖ Data on wine sales should be monitored as well
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Employee Tracking

- ❖ Detailed records of employee hours should be kept
 - ❖ These are required for performance reviews
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ERD



Reports

Four reports were made to supply the information for the yearly review

- ❖ Supplies Inventory Status
- ❖ Wine Sales and Distribution Report
- ❖ Supplier Delivery Performance Report
- ❖ Employee Time Tracking Report

Supplies Inventory Status

Winery Reports Menu

1. Inventory Status
2. Sales Report
3. Supplier Delivery Performance
4. Employee Work Hours
5. Exit

Enter your choice: 1

Item Name	Quantity	Reorder Level	Status
Bottle	1500	500	Sufficient Stock
Cork	3000	1000	Sufficient Stock
Boxes	50	30	Sufficient Stock
Labels	1000	500	Sufficient Stock
Vats	20	15	Sufficient Stock
Tubing	500	400	Sufficient Stock

- ❖ Shows current inventory status of supplies
- ❖ Gives a general idea of the status and if reorder is needed

Wine Sales and Distribution Report

Winery Reports Menu

1. Inventory Status
2. Sales Report
3. Supplier Delivery Performance
4. Employee Work Hours
5. Exit

Enter your choice: 2

Wine Name	Q1 Sales	Q2 Sales	Q3 Sales	Q4 Sales	Total Sales
Decoy	500.00	450.00	600.00	700.00	2250.00
Barefoot	1200.00	1100.00	1300.00	1250.00	4850.00
Christian Moreau	300.00	350.00	400.00	450.00	1500.00
Sutter Home	800.00	750.00	700.00	850.00	3100.00

- ❖ Lists wines, their distributors, and the quantity sold in the past quarter
 - ❖ Offers a visual of wine sales and who distributes them

Supplier Delivery Performance

Winery Reports Menu

1. Inventory Status
2. Sales Report
3. Supplier Delivery Performance
4. Employee Work Hours
5. Exit

Enter your choice: 3

Supplier Name	Scheduled Delivery	Actual Delivery	Hours Late
SaxCo	2024-10-13	2024-10-14	24.00
SaxCo	2024-10-31	2024-11-02	48.00
SaxCo	2024-11-24	2024-11-29	120.00
SaxCo	2024-12-01	2024-12-01	0.00
Vermont Wooden Box Co.	2024-10-12	2024-10-12	0.00
Vermont Wooden Box Co.	2024-11-30	2024-11-29	-24.00
Vermont Wooden Box Co.	2024-12-05	2024-12-06	24.00
Midwest Barrel Co.	2024-10-03	2024-10-03	0.00
Midwest Barrel Co.	2024-10-30	2024-11-01	48.00
Midwest Barrel Co.	2024-12-01	2024-12-01	0.00
Midwest Barrel Co.	2024-12-09	2024-12-07	-48.00

- ❖ Lists every delivery scheduled in the past quarter
- ❖ Offers an online aid for tracking shipments across quarters

Employee Time-Tracking

- ❖ Supplies detailed records of employee hours worked for yearly performance reviews

Winery Reports Menu

1. Inventory Status
2. Sales Report
3. Supplier Delivery Performance
4. Employee Work Hours
5. Exit

Enter your choice: 4

Employee Name	Q1 Hours	Q2 Hours	Q3 Hours	Q4 Hours	Total Hours
Stan Bacchus	160.00	160.00	160.00	160.00	640.00
Davis Bacchus	160.00	160.00	160.00	160.00	640.00
Janet Collins	120.00	120.00	120.00	120.00	480.00
Roz Murphy	120.00	120.00	120.00	120.00	480.00
Bob Ulrich	160.00	160.00	160.00	160.00	640.00
Henry Doyle	120.00	120.00	120.00	120.00	480.00
Maria Costanza	120.00	114.00	111.00	100.00	445.00
John Doe	29.00	120.00	111.00	124.00	384.00
Jane Smith	134.00	140.00	120.00	110.00	504.00
Mike Johnson	100.00	100.00	100.00	100.00	400.00
Sarah Brown	122.00	211.00	100.00	200.00	633.00
Chris Davis	122.00	100.00	70.00	180.00	472.00
Emma Wilson	100.00	100.00	100.00	100.00	400.00
Liam Martinez	122.00	100.00	122.00	122.00	466.00
Olivia Anderson	100.00	100.00	100.00	100.00	400.00
Noah Thomas	129.00	124.00	153.00	123.00	529.00
Sophia White	120.00	231.00	122.00	200.00	673.00
Mason Lee	129.00	124.00	153.00	123.00	529.00
Isabella Harris	129.00	124.00	153.00	123.00	529.00
Ethan Clark	129.00	124.00	153.00	123.00	529.00
Mia Lewis	129.00	124.00	153.00	123.00	529.00
Logan Walker	129.00	124.00	153.00	123.00	529.00
Amelia Hall	129.00	124.00	153.00	123.00	529.00
Lucas Allen	129.00	124.00	153.00	123.00	529.00
Charlotte Young	129.00	124.00	153.00	123.00	529.00
Benjamin King	129.00	124.00	153.00	123.00	529.00
Ava Scott	129.00	124.00	153.00	123.00	529.00



Assumptions

- ❖ Suppliers adopting digital systems
- ❖ Monthly restocking unless production increases
- ❖ Distributors equipped for online orders
- ❖ Marketing targets underperforming wines



Assumptions (cont'd)

- ❖ Employees and distributors embrace new tech with training
- ❖ Compliance with labor laws ensured
- ❖ Stan and Davis review monthly reports for decisions



Assumptions (cont'd)

- ❖ Budget supports automation and quality assurance
 - ❖ Predictable seasonal demand
 - ❖ Storage handles peak stock
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Thanks!
