



Bacchus Winery

Case Study

Bacchus Winery

Bacchus Winery is a family-owned winery that prides itself on growing its own grapes to ensure the quality and availability of its wines.

Three years ago, brothers Stan and Davis Bacchus inherited the business from their father George after his retirement.

Both brothers value the dedication and hard work their father put into the business. However, they want to incorporate new business methods into the winery's operations to improve the products and services.



Bacchus Winery Brief



- Although they are making many changes to improve the products and services existing personnel will be retained to assist them with these updates.

- The following personnel includes:

- Janet Collins, finances and payroll
- Roz Murphy, heads the marketing department
- Bob Ulrich, Roz Murphy's assistant
- Henry Doyle, manages the production line
- Maria Costanza, oversees distribution

- The first thing to do is gather information to get a yearly snapshot of the business. They need to find out if supplies are delivered on time or if there are any gaps between expected delivery dates and actual delivery dates. Also, they need to find out if there are any problems with wine distribution, wines sell, and employee hourly stats.

- Stan and Davis are not only owners of the winery but are responsible for inventory management. Currently, they receive their supplies from three different suppliers who deliver monthly. The suppliers provide the following products:

- bottles and corks
- labels and boxes
- vats and tubing

- This has led them to explore more efficient methods of tracking and ordering supplies, potentially utilizing internet-based systems. Also, Maria, who oversees distribution, has suggested getting their distributors to be able to order online and track shipments.

Business Rules



Supplier Performance Monitoring:

Track and analyze the delivery performance of each supplier.

Maintain records of expected delivery dates versus actual delivery dates for components.

Generate monthly reports to identify any significant gaps between expected and actual delivery dates.

Address any persistent or significant delays with suppliers to ensure timely delivery of components.



Efficient Supply Management:

Explore and implement an efficient method, such as an online ordering system, to track inventory levels and automate the process of ordering supplies from various suppliers.

Regularly review inventory levels to avoid stockouts or excessive inventory.



Online Ordering and Tracking for Distributors:

Develop an online platform that allows distributors to place orders for wines, track shipments, and receive real-time updates on delivery status.



Wine Sales Analysis:

Analyze sales data to evaluate the performance of each wine type (Merlot, Cabernet, Chablis, Chardonnay).

Identify any wines that are not selling as expected and investigate the possible causes.

Regularly review distributor performance in terms of sales volume and customer feedback.



Employee Time Tracking:

Generate reports to summarize the number of hours worked by each employee during each quarter.



Yearly Business Snapshot:

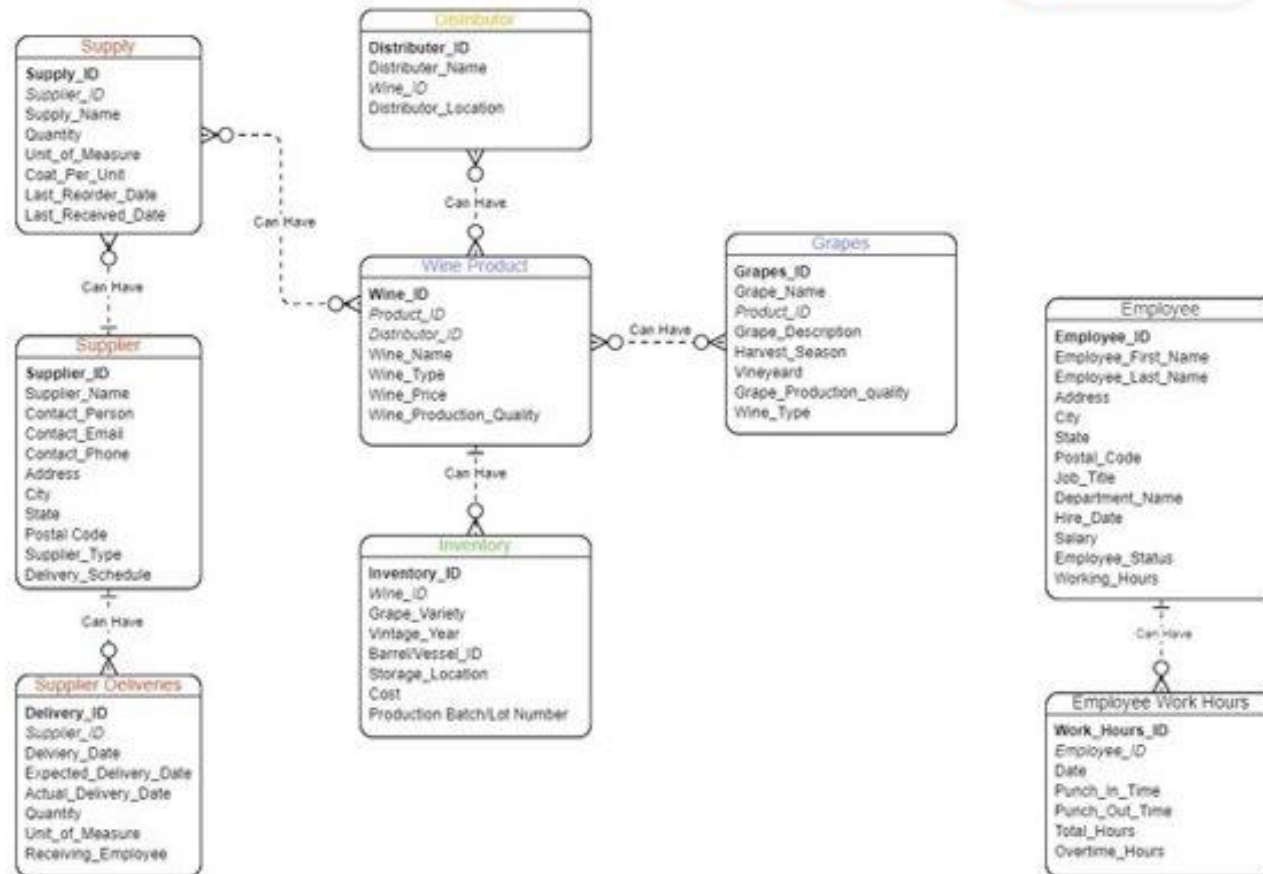
Prepare a comprehensive yearly report summarizing the state of inventory, distribution, and employee-related information.

Use the snapshot report to assess the overall business performance and make informed decisions for improvement.

Entity Relationship Diagram

GROUP NAME: Data Commanders

TEAM MEMBERS: Emanuel Pagan | Wendy Rzechula | Sheila Smallwood | DJ Trost





Business Reports

The following three reports based on the user story provided are the most effective in producing the results the stakeholders are expecting.

Report One: Employee

The first report will generate daily based on specific query selections giving detailed information about the hours an employee worked during each of the four quarters throughout a one-year period. This report gives stakeholders insight into employee production and efficiency.

Example of how the report would look to the right:

| Employee Work Hours Report | | | |
|----------------------------|------------|----------|-----------|
| ----- | | | |
| Employee Name | Work Day | Clock-In | Clock-Out |
| ----- | | | |
| Janet Collins | 2022-10-31 | 8:59:30 | 17:30:32 |
| Roz Murphy | 2022-10-31 | 8:57:03 | 17:30:12 |
| Bob Ulrich | 2022-10-31 | 9:00:57 | 17:30:58 |
| Henry Doyle | 2022-10-31 | 8:55:03 | 17:29:59 |
| Maria Costanza | 2022-10-31 | 8:58:09 | 17:30:02 |
| Bob Ulrich | 2022-11-01 | 9:01:01 | 17:30:45 |

Report Two: Distributor Report

- The Second report is based on the stakeholder's request for an inventory list of current wines in stock, and distributors' information based on all wines carried by the company. This report would include the wine id, price, quantity and distributor information to ease reordering for all parties involved.
- Example of how the report would look to the right:

```
Wine ID: 1, Price: $15, Quantity: 0  
Distributor: Distributor 1  
Address: 578 S Wintergreen Dr, North Augusta, SC 29841  
  
Wine ID: 2, Price: $17, Quantity: 0  
Distributor: Distributor 3  
Address: 17 Talbot St, Muskegon, MI 49441  
  
Wine ID: 2, Price: $17, Quantity: 0  
Distributor: Distributor 5  
Address: 9263 S Logan Lane, Quincy, MA 02169  
  
Wine ID: 3, Price: $17, Quantity: 0  
Distributor: Distributor 2  
Address: 6 Marconi Rd, Huntsville, AL 35803  
  
Wine ID: 3, Price: $17, Quantity: 0  
Distributor: Distributor 6  
Address: 424 Garfield Street, Clementon, NJ 08201
```


Report Three: Suppliers

The Third Report includes the final requirements from stakeholders where a monthly report would be generated providing the suppliers name, contact name, contact details, expected delivery dates, actual delivery dates and the supplies delivered.

Here is an example of how the report would look:

| Supplier Information Report | | | | | | | |
|-----------------------------|------------------|----------------|--------------------|--------------------------------|---------------|---------------|--|
| Supplier Name | Contact Name | Phone | Email | Supplies | Delivery Date | Expected Date | |
| Supplier 1 | Odell Boyer | (504) 899-9970 | oboyer@sup1.com | bottles, bottles, corks, corks | 2022-10-15 | 2022-10-15 | |
| Supplier 2 | Saylor Woods | (536) 822-7091 | swoods@sup2.com | labels, boxes | 2022-10-02 | 2022-10-01 | |
| Supplier 2 | Saylor Woods | (536) 822-7091 | swoods@sup2.com | labels, boxes | 2022-10-07 | 2022-10-01 | |
| Supplier 3 | Lincoln Whitaker | (835) 624-4092 | lwhitaker@sup3.com | vats, tubing | 2022-10-23 | 2022-10-25 | |
| Supplier 3 | Lincoln Whitaker | (835) 624-4092 | lwhitaker@sup3.com | vats, tubing | 2022-10-25 | 2022-10-25 | |

Assumptions Made

Existing Supplier Relationships: The assumption is that Bacchus Winery will continue working with the three suppliers for their components. These relationships have been ongoing and the suppliers will continue to deliver the components on a monthly basis.

Tracking of Supply Inventory: The assumption is that Stan and Davis are manually tracking the inventory supplies like bottles, corks, labels, boxes, vats, and tubing currently, which is why they are looking to incorporate online possibilities.

Distributor Relationship and Sales: The assumption is that Bacchus Winery has established relationships with multiple distributors and each one carries a specific type of wine (Merlot, Cabernet, Chablis, Chardonnay), but doesn't know how well each wine is selling through the distributors.

Employee Time Tracking: The assumption is there are issues with employee work hours being tracked and recorded for payroll purposes, so they need to be analyzed for the last four quarters, possibly for performance evaluation and payroll processing.

Snapshot Reporting: The assumption is that Bacchus Winery hasn't conducted a yearly snapshot report to assess the state of inventory, distribution, and employee-related information recently and needs to do so to evaluate the overall business performance and make informed decisions for improvement.





Conclusion

Addressing the winery's need for efficient supply management, distribution tracking and employee time tracking is crucial for improving operations and achieving business goals.

Continuing collaboration between the winery owners and stakeholders will guarantee the winery's ongoing progress.