

Bacchus Winery

CSD 310-340A Database Development and
Use

Group 1
Dan Rojas
Issac St. Hubert
Drew Crockett
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Mod 11.2

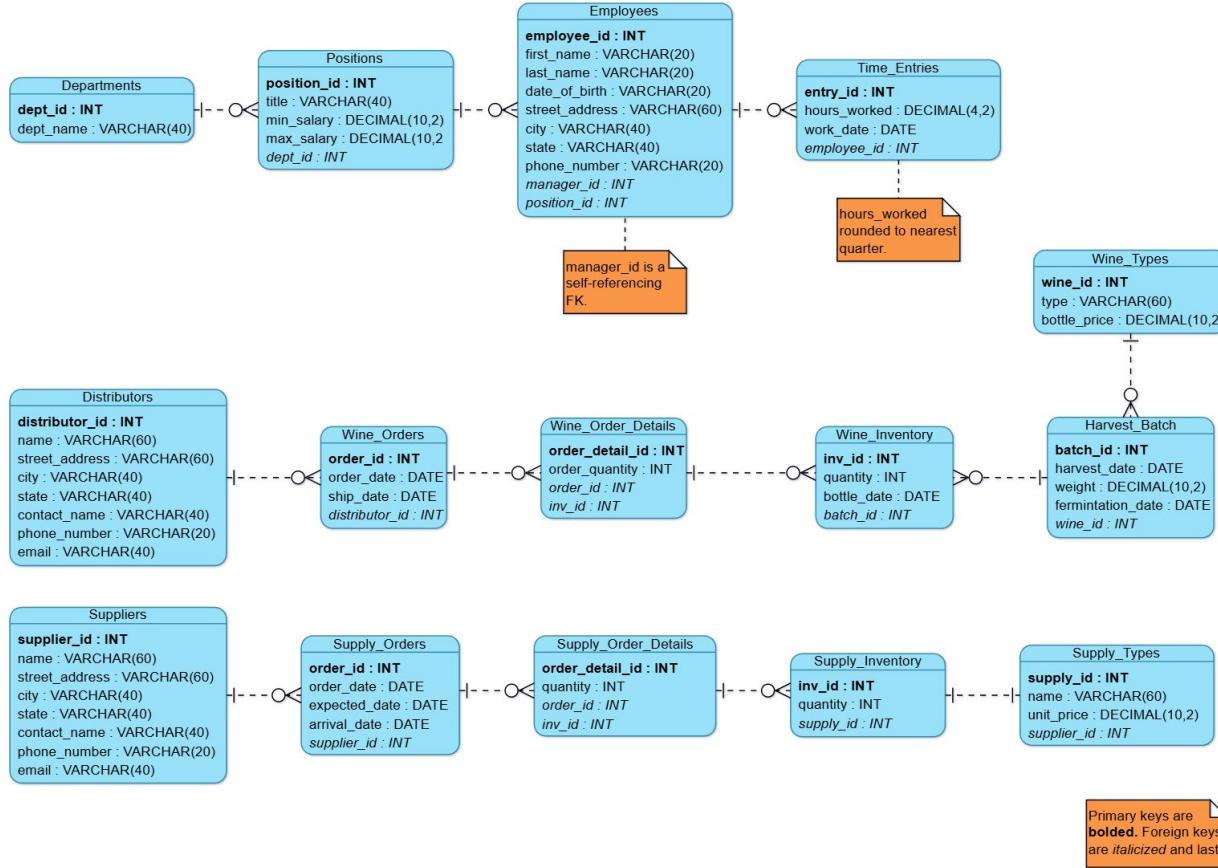
Case Study Summary

Two brothers, Stan and Davis Bacchus, recently inherited a small vineyard from their father and are incorporating new business methods to improve their products and customer service.

Their workforce is on the smaller side.

They are able to produce Merlot, Cabernet, Chablis, and Chardonnay wines.

They have three suppliers for their materials and are seeking to efficiently track their supply inventory, wine inventory, sales, sales trends, and employee work hours.



ERD

Report 1

Provides information regarding the materials deliveries from suppliers. Specifically their estimated and actual delivery dates along with how early or late each order was.

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===== SUPPLY DELIVERY REPORT =====
Supplier: BottleCo | Order_id: 1 | Expected date: 2025-01-14 | Arrival date: 2025-01-15 | Late by 1 days
Supplier: BottleCo | Order_id: 2 | Expected date: 2025-02-14 | Arrival date: 2025-02-09 | Early by 5 days
Supplier: LabelWorks | Order_id: 3 | Expected date: 2025-03-14 | Arrival date: 2025-03-07 | Early by 7 days
Supplier: Vats&Tubes | Order_id: 4 | Expected date: 2025-04-14 | Arrival date: 2025-04-12 | Early by 2 days
Supplier: LabelWorks | Order_id: 5 | Expected date: 2025-05-14 | Arrival date: 2025-05-05 | Early by 9 days
Supplier: Vats&Tubes | Order_id: 6 | Expected date: 2025-06-14 | Arrival date: 2025-06-14 | On Schedule
===== SUPPLY DELIVERY REPORT =====
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Report 2

Provides information regarding the sales trends and profits of specific wines, and which distributors carry each wine.

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===== WINE SALES REPORT =====
--- Wine Revenue ---
Cabernet | Price: $18.50 | Total Sold: 100 bottles | Total Revenue: $1850.00
Chablis | Price: $12.75 | Total Sold: 0 bottles | Total Revenue: $0.00
Chardonnay | Price: $14.25 | Total Sold: 0 bottles | Total Revenue: $0.00
Merlot | Price: $15.99 | Total Sold: 605 bottles | Total Revenue: $9673.95

--- Underperforming Wines ---
Chablis is underperforming with 0 bottles sold.
Chardonnay is underperforming with 0 bottles sold.

--- Distributor Wine Purchases ---
Wine Drinkers bought 225 bottles of Merlot
Wine Lovers bought 100 bottles of Cabernet
Wine Lovers bought 150 bottles of Merlot
Wine Plus bought 230 bottles of Merlot
===== WINE SALES REPORT =====
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Report 3

Provides information regarding individual employee work hours on a quarterly basis.

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===== EMPLOYEE WORK HOURS REPORT =====
--- Hours Worked Per Employee Each Quarter ---
Stan Bacchus | 2025-Q1 | Hours Worked: 8.00
Stan Bacchus | 2025-Q2 | Hours Worked: 8.25
Stan Bacchus | 2025-Q3 | Hours Worked: 9.00
Stan Bacchus | 2025-Q4 | Hours Worked: 6.00
Davis Bacchus | 2025-Q1 | Hours Worked: 10.00
Davis Bacchus | 2025-Q2 | Hours Worked: 16.00
Davis Bacchus | 2025-Q4 | Hours Worked: 9.00
Janet Collins | 2025-Q1 | Hours Worked: 11.00
Janet Collins | 2025-Q2 | Hours Worked: 8.00
Janet Collins | 2025-Q3 | Hours Worked: 8.00
Janet Collins | 2025-Q4 | Hours Worked: 8.00
Roz Murphy | 2025-Q1 | Hours Worked: 7.50
Roz Murphy | 2025-Q2 | Hours Worked: 8.00
Roz Murphy | 2025-Q3 | Hours Worked: 8.00
Roz Murphy | 2025-Q4 | Hours Worked: 9.75
Bob Ulrich | 2025-Q1 | Hours Worked: 8.00
Bob Ulrich | 2025-Q2 | Hours Worked: 8.00
Bob Ulrich | 2025-Q3 | Hours Worked: 10.00
Bob Ulrich | 2025-Q4 | Hours Worked: 8.00
Henry Doyle | 2025-Q1 | Hours Worked: 8.00
Henry Doyle | 2025-Q2 | Hours Worked: 8.00
Henry Doyle | 2025-Q3 | Hours Worked: 7.75
Henry Doyle | 2025-Q4 | Hours Worked: 8.00
Maria Costanza | 2025-Q1 | Hours Worked: 8.00
Maria Costanza | 2025-Q2 | Hours Worked: 9.00
Maria Costanza | 2025-Q3 | Hours Worked: 8.00
Maria Costanza | 2025-Q4 | Hours Worked: 10.00
===== EMPLOYEE WORK HOURS REPORT =====
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Assumptions

This is a relatively small vineyard given the amount of employees.

Given the above mention small size, every department has unique employee positions tied to it.

No wine blends are being produced as the Case Study specifies what wine types can be produced.