



Bacchus Winery Database Design

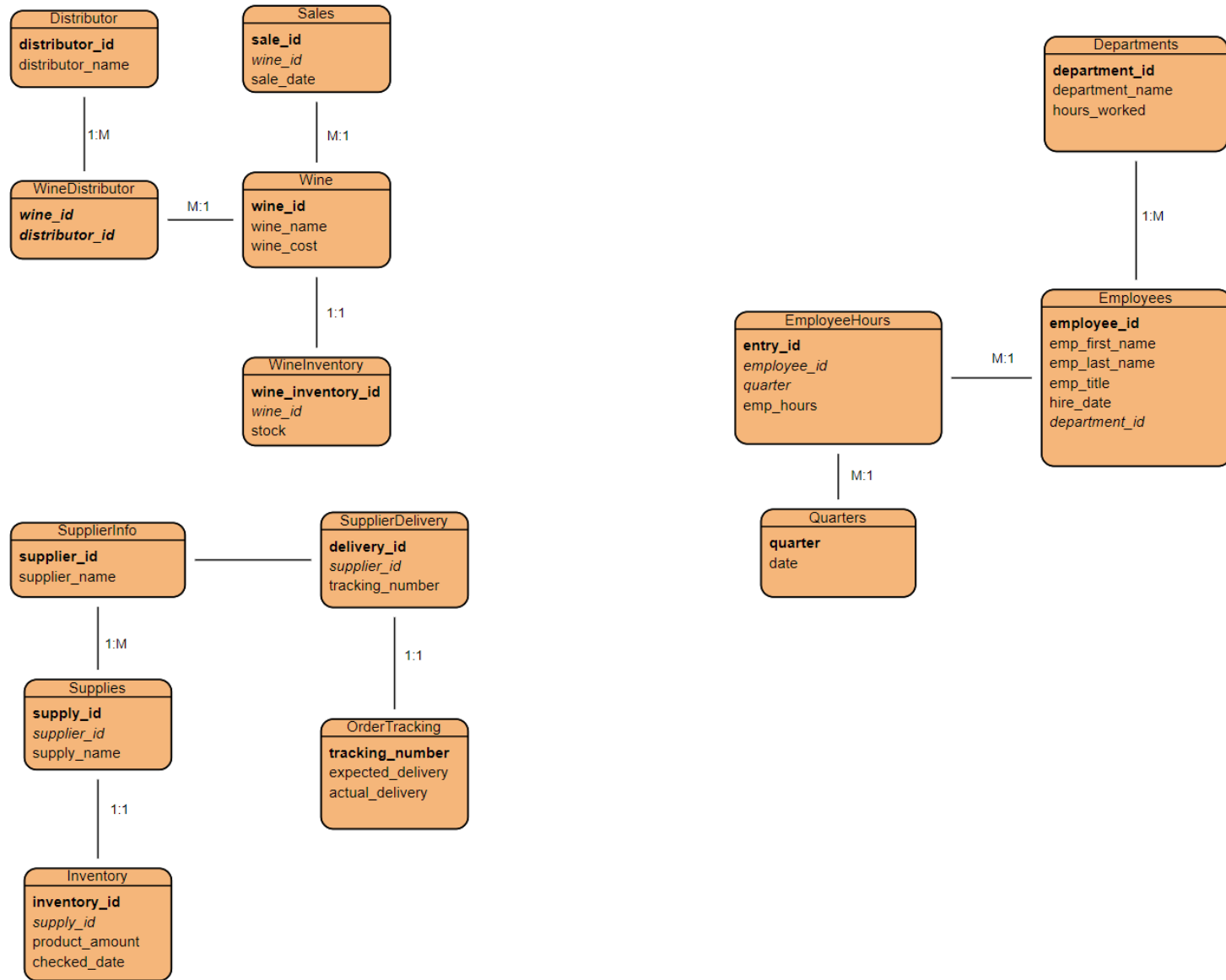
Group 3: Javonta Young, Mason
Buller, Margaret Shimerdla, Julio
Cruz Romero

Bacchus Winery Case Study

Summary

- The company was inherited by two sons who wanted to keep all current personnel. They have managers for finances and payroll, marketing, and production. They also have a marketing assistant and twenty production line workers.
- They grow grapes to make Merlot, Cabernet, Chablis, and Chardonnay.
- They receive bottling supplies from three different suppliers and have two people in charge of keeping track of supply deliveries and inventory.
- They want a more efficient way to keep track of ordering supplies, track shipments, and allow their distributors to order online.

Entity Relationship Design



Report 1

- Are all suppliers delivering on time?
- Is there a large gap between expected delivery and actual delivery?
- A month-by-month report should show problem areas.

```
--DISPLAYING Gap between expected delivery and actual delivery for JANUARY--  
supplier_id: 3  
expected_delivery:2024-02-01  
actual_delivery:2024-01-23  
Day Difference: 9
```

```
supplier_id: 1  
expected_delivery:2024-02-01  
actual_delivery:2024-01-28  
Day Difference: 4
```

```
supplier_id: 1  
expected_delivery:2024-02-01  
actual_delivery:2024-01-27  
Day Difference: 5
```

```
--DISPLAYING Gap between expected delivery and actual delivery for FEBRUARY--  
supplier_id: 2  
expected_delivery:2024-03-01  
actual_delivery:2024-02-22  
Day Difference: 8
```

```
supplier_id: 3  
expected_delivery:2024-03-01  
actual_delivery:2024-02-28  
Day Difference: 2
```

```
--DISPLAYING Gap between expected delivery and actual delivery for MARCH--  
supplier_id: 1  
expected_delivery:2024-03-01  
actual_delivery:2024-03-24  
Day Difference: -23
```

```
supplier_id: 2  
expected_delivery:2024-03-01  
actual_delivery:2024-03-18  
Day Difference: -17
```

```
supplier_id: 1  
expected_delivery:2024-04-01  
actual_delivery:2024-03-30  
Day Difference: 2
```

Report 2

- The wine distribution, are all wines selling as they thought?
- Is one wine not selling?
- Which distributor carries which wine?

Wines selling status:

Merlot: Yes

Cabernet: Yes

Chablis: Yes

Chardonnay: Yes

Unsold wines: 0

Distributor information for each wine:

Wine ID: 380

- Trader Joes

- Costco

Wine ID: 381

- Trader Joes

- Costco

Wine ID: 382

- Target

- Costco

Wine ID: 383

- Target

Report 3

During the last 4 quarters, How many hours did each employee work?

```
--Quarter 1 Hours--
Employee ID: 1
Employee Name: Stan Bacchus
Quarter: Q1
Total Hours: 1021

Employee ID: 2
Employee Name: Davis Bacchus
Quarter: Q1
Total Hours: 1035

Employee ID: 3
Employee Name: Janet Collins
Quarter: Q1
Total Hours: 1048

Employee ID: 4
Employee Name: Roz Murphy
Quarter: Q1
Total Hours: 745

Employee ID: 5
Employee Name: Bob Ulrich
Quarter: Q1
Total Hours: 1008

Employee ID: 6
Employee Name: Henry Doyle
Quarter: Q1
Total Hours: 906

Employee ID: 7
Employee Name: Maria Costanza
Quarter: Q1
Total Hours: 913

Employee ID: 8
Employee Name: Tony Stark
Quarter: Q1
Total Hours: 416

Employee ID: 9
Employee Name: Thor Odinson
Quarter: Q1
Total Hours: 585

Employee ID: 10
Employee Name: Janet Van Dyke
Quarter: Q1
Total Hours: 585
```

Report 3 (cont'd)

Quarter 2 Results

--Quarter 2 Hours--

Employee ID: 1
Employee Name: Stan Bacchus
Quarter: Q2
Total Hours: 1058

Employee ID: 2
Employee Name: Davis Bacchus
Quarter: Q2
Total Hours: 1030

Employee ID: 3
Employee Name: Janet Collins
Quarter: Q2
Total Hours: 1075

Employee ID: 4
Employee Name: Roz Murphy
Quarter: Q2
Total Hours: 803

Employee ID: 5
Employee Name: Bob Ulrich
Quarter: Q2
Total Hours: 1182

Employee ID: 6
Employee Name: Henry Doyle
Quarter: Q2
Total Hours: 976

Employee ID: 7
Employee Name: Maria Costanza
Quarter: Q2
Total Hours: 948

Employee ID: 8
Employee Name: Tony Stark
Quarter: Q2
Total Hours: 416

Employee ID: 9
Employee Name: Thor Odinson
Quarter: Q2
Total Hours: 600

Employee ID: 10
Employee Name: Janet Van Dyke
Quarter: Q2
Total Hours: 585

Report 3 (cont'd)

Quarter 3 Results

--Quarter 3 Hours--

Employee ID: 1

Employee Name: Stan Bacchus

Quarter: Q3

Total Hours: 1143

Employee ID: 2

Employee Name: Davis Bacchus

Quarter: Q3

Total Hours: 1020

Employee ID: 3

Employee Name: Janet Collins

Quarter: Q3

Total Hours: 1132

Employee ID: 4

Employee Name: Roz Murphy

Quarter: Q3

Total Hours: 790

Employee ID: 5

Employee Name: Bob Ulrich

Quarter: Q3

Total Hours: 1187

Employee ID: 6

Employee Name: Henry Doyle

Quarter: Q3

Total Hours: 1028

Employee ID: 7

Employee Name: Maria Costanza

Quarter: Q3

Total Hours: 1081

Employee ID: 8

Employee Name: Tony Stark

Quarter: Q3

Total Hours: 416

Employee ID: 9

Employee Name: Thor Odinson

Quarter: Q3

Total Hours: 585

Employee ID: 10

Employee Name: Janet Van Dyke

Quarter: Q3

Total Hours: 585

Report 3 (cont'd)

Quarter 4 Results

--Quarter 4 Hours--

Employee ID: 1
Employee Name: Stan Bacchus
Quarter: Q4
Total Hours: 1089

Employee ID: 2
Employee Name: Davis Bacchus
Quarter: Q4
Total Hours: 1074

Employee ID: 3
Employee Name: Janet Collins
Quarter: Q4
Total Hours: 1164

Employee ID: 4
Employee Name: Roz Murphy
Quarter: Q4
Total Hours: 824

Employee ID: 5
Employee Name: Bob Ulrich
Quarter: Q4
Total Hours: 1172

Employee ID: 6
Employee Name: Henry Doyle
Quarter: Q4
Total Hours: 1188

Employee ID: 7
Employee Name: Maria Costanza
Quarter: Q4
Total Hours: 1223

Employee ID: 8
Employee Name: Tony Stark
Quarter: Q4
Total Hours: 416

Employee ID: 9
Employee Name: Thor Odinson
Quarter: Q4
Total Hours: 585

Case Study Assumptions

- Online ordering is in a different database
- Everything is ordered online by retailers (i.e. Costco, Target, etc..)
- Chablis does not sell much because it is pricey
- Head of department workers are on call
- Some workers hours were different in Quarters because of appointments and personal matters
- Some workers did overtime for extra money