Alpha Group

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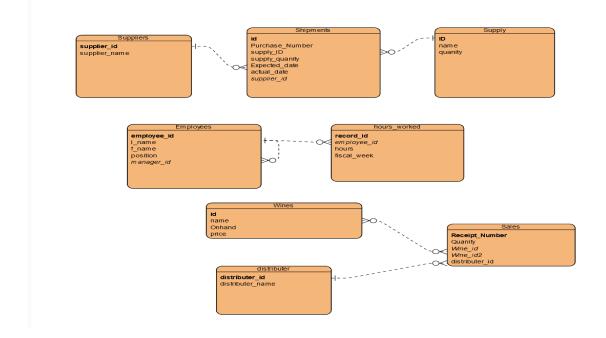
Case Study Project

Milestone #1:

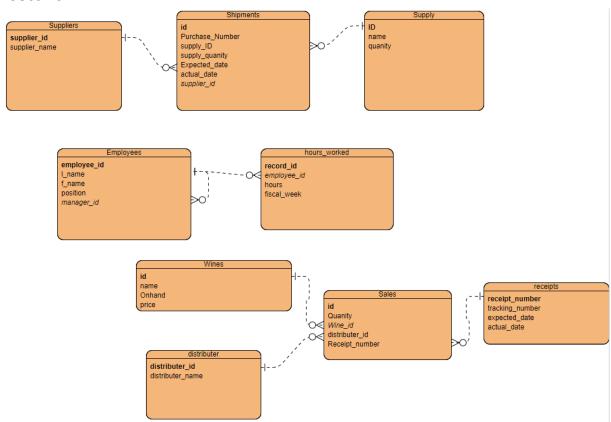
Case Chosen: Bacchus Winery

Business Rules:

Bacchus has multiple Wines
Bacchus has multiple Suppliers
Bacchus has multiple Employees
One Employee has multiple Positions
Multiple Employee's have multiple Hours
One Supplier has multiple Products
One Supplier has multiple Shipments
Multiple Shipments have One Supply
Multiple Wine's have multiple Sales
One Distributor has multiple Sales



Milestone #2:





cmployee_id:5
fiscal_week:5
hours:48
id:1 distributer_id:1 id:156945 quantity:1 receipt_number:15 wine_id:2 distributer_id:2 id:156992 quantity:1 receipt_number:1 wine_id:6 mployee_id:7 iscal_week:7 ours:62 d:1 distributer_id:3 id:156989 quantity:4 receipt_number:30 wine_id:5 --Receipts Results-ctual_date:151582 expected_date:235489348 receipt_number:2023-12-05 racking_number:2023-12-02 id:151582 quantity:3 receipt_number:15 wine_id:4 actual_date:156789 expected_date:682235789 receipt_number:2023-12-05 tracking_number:None distributer_id:5 id:156789 quantity:2 receipt_number:9 wine_id:3 actual date:156945 xpected_date:123456 eceipt_number:2023-12-05 racking_number:None distributer_id:6 id:159872 quantity:1 receipt_number:30 wine_id:2 actual_date:156989 expected_date:156327235 receipt_number:2023-12-05 tracking_number:None ctual_date:156992 xpected_date:5389725 eceipt_number:2623-12-05 racking_number:None --Shipments Results-actual_date:1 expected_date:981758 id:1 purchase_number:100 supplier_id:2023-11-25 supply_id:2023-11-25 supply_quantity:1 ctual_date:159872 expected_date:2853687 receipt_number:2023-12-05 racking_number:2023-12-03 actual_date:2 expected_date:981513 id:2 --Sales Results-distributer_id:1

--Shipments Results--Suppliers Resultsactual_date:1 expected_date:981758 id:1 purchase_number:100 supplier_id:2023-11-25 supply_id:2023-11-25 supply_quantity:1 id:1 name:BottleAndCork id:3 name:VatsAndTubing actual_date:2 expected_date:981513 id:2 purchase_number:100 supplier_id:2023-11-25 supply_id:2023-11-25 supply_quantity:1 --Supply Results-id:1 name:Bottles quantity:100 id:2 name:Cork quantity:100 actual_date:3 expected_date:981780 id:3 purchase_number:100 supplier_id:2023-11-10 supply_id:2023-11-10 supply_quantity:2 id:3 name:Boxes quantity:100 actual_date:4 expected_date:981791 id:4 purchase_number:100 supplier_id:2023-11-25 supply_id:2023-11-25 supply_quantity:2 id:5 name:Tubing quantity:100 id:6 name:Vats quantity:100 actual_date:5
expected_date:981850
id:5
purchase_number:100
supplier_id:2023-11-25
supply_id:2023-11-25
supply_quantity:3 --Wines Results-actual_date:6 expected_date:981458 id:6 purchase_number:100 supplier_id:2023-11-25 supply_id:2023-11-25 supply_quantity:3 id:2 name:Cabernet onhand:14 price:14.99

```
name:Vats
quantity:100
 --Wines Results--
id:1
name:Merlot
onhand:16
price:16.99
name:Cabernet
onhand:14
price:14.99
id:3
name:Chablis
onhand:20
price:17.99
name:Chardonnay
onhand:31
price:19.99
```

Milestone #3:

Reports needed for making the business decisions listed in the case study:

- Question #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.
 - Report on suppliers delivering on time.
 - Report of the suppliers that have large gaps between the expected delivery versus the actual delivery date. Specifically, if the gap is more than a week.
- Question #2: The wine distribution, are all wines selling as they thought? Is one wine not selling? Which distributor carries which wine?
 - Report on wine sales, specifically displaying the trend across the sales of the different wines and noting which ones are selling below average.
 - A report on which distributor carries which wine sold by the winery.
- Question #3: Employee time. During the last four quarters, how many hours did each employee work?
 - A report on the hours each employee worked during the last four quarters.

Delivery Report

This report shows us the supplier's name, the expected date of delivery, the actual date of delivery, whether it was on time, and by how many days late the delivery was. From this point we can see that most of the suppliers had a good time ratio when delivering their supplies, however the supplier BoxandLabels had a delivery late by 10 days.

```
--Late Shipment's Report ran on Fri Dec 8 01:41:37 2023--
Name: BoxAndLabels
Expected Date: 2023-11-15
Actual Date: 2023-11-25
On Time: No
Late By: 10 days
```

Wine Distribution Report

The distribution report shows us what retailer is selling the specific wine, or even if they are selling more than one type of wine. In this case only WineMart is currently selling more than one type of wine with Merlot and Cabernet being the two wines that are sold within more than one location.

```
--Distributer's Wine's Report ran on Sun Dec 10 18:17:11 2023--
Name: WineMart
Wine Name: Merlot, Cabernet

Name: Wineys
Wine Name: Merlot

Name: Wine and Dine
Wine Name: Cabernet

Name: Wine Sale
Wine Name: Chablis

Name: Wine and More
Wine Name: Chardonnay
```

Wine Sales Report

The wine sales report pulls the data from the wines table and the sales table, and then calculates the average of the sales for the wines to show how each wine is selling along with whether or not the wine is selling well (above the average) or not selling well (below the average). From the python script being run, we can see that out of all the wines, the Chablis and Cabernet aren't selling well as they are below the average, and the Merlot and Chardonnay are selling well as they are above the average. The average of the wine sales is displayed below to show as a reference to compare the sales of the wine.

```
IDLE Shell 3.11.4
    Python 3.11.4 (v3.11.4:d2340ef257, Jun 6 2023, 19:15:51) [Clang 13.0.0 (clang-1
    300.0.29.30)] on darwin
    Type "help", "copyright", "credits" or "license()" for more information.
    ======= RESTART: /Users/ashleylandin/Downloads/wine_sales (1).py =========
     Database user root connected to MySQL on host 127.0.0.1 with database bacchus
    Press any key to continue...
    --Wine Sales Report on Sat Dec 9 12:45:17 2023--
    Name:Merlot
    Sales Quantity: 184
    Results: Selling Well
    Name: Chablis
    Sales Quantity:60
    Results: Not Selling Well
    Name: Cabernet
    Sales Quantity:36
    Results: Not Selling Well
    Name: Chardonnay
    Sales Quantity:120
    Results: Selling Well
    The Average of all wine sales is 100
>>>
                                                                        Ln: 30 Col: 0
```

Employee Hours Report

The purpose of this report is to inform the current employee's, their total hours for the last four quarters and show their employee ID. Showing first the

employee ID, their name and total hours you can see the trend that certain people are working a crazy amount of time while others are on the lower end and these could be indications of their station as some of the lowest hours are coming from the owner's Davis and Stan Bacchus along with their head of distribution Maria.

```
-- Hours Worked Report --
Pulled on: Sun Dec 10 08:56:04 2023
Employee Id: 1
Employee Name: Janet Collins
Hours Worked: 78
Employee Id: 2
Employee Name: Roz Murphy
Hours Worked: 98
Employee Id: 3
Employee Name: Bob Ulrich
Hours Worked: 95
Employee Id: 4
Employee Name: Henry Doyle
Hours Worked: 144
Employee Id: 5
Employee Name: Maria Costanza
Hours Worked: 48
Employee Id: 6
Employee Name: Davis Bacchus
Hours Worked: 59
Employee Id: 7
Employee Name: Stan Bacchus
Hours Worked: 62
```

Milestone #4:

Milestone #5: