

Milestone #2

Assignment 10.1 | CSD310

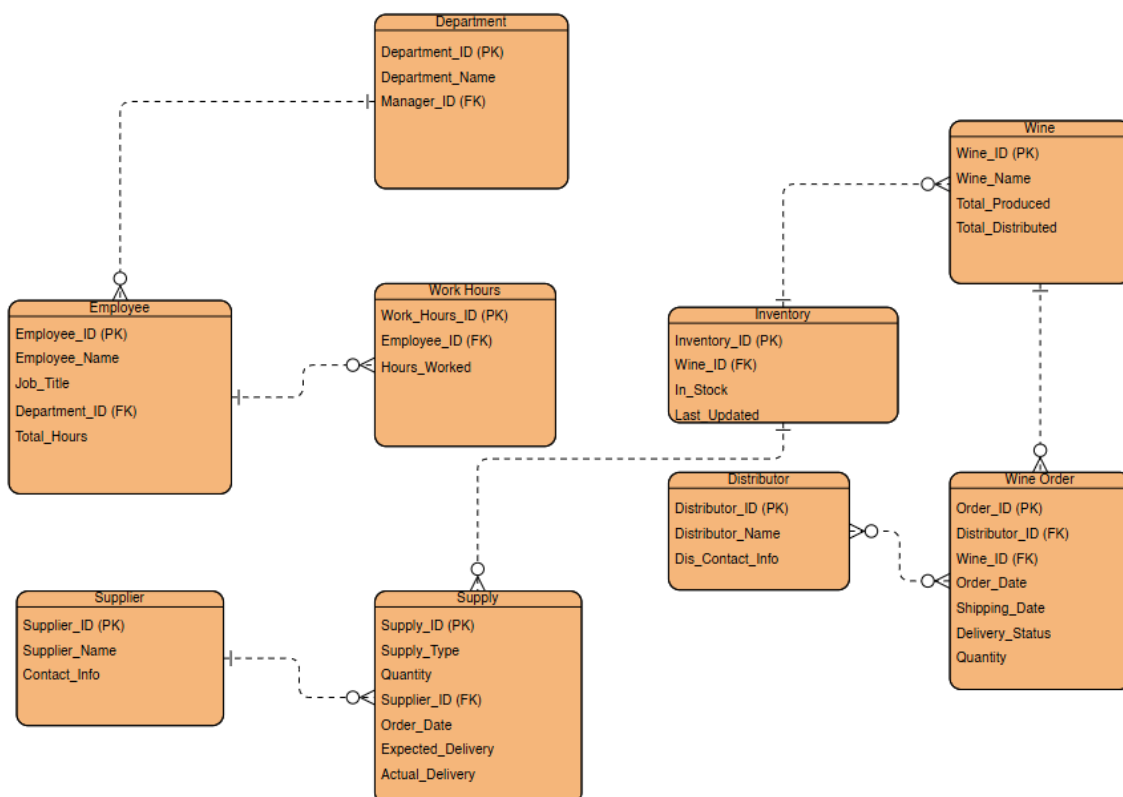
May 16th, 2025

Team Members:

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Revised ERD:



SQL Bacchus Winery

```
DROP DATABASE IF EXISTS Bacchus_Winery;
```

```
CREATE DATABASE Bacchus_Winery;
```

```
USE Bacchus_Winery;
```

```
CREATE TABLE Department (
```

```
    Department_ID INT PRIMARY KEY AUTO_INCREMENT,
```

```
    Department_Name VARCHAR(50) NOT NULL
```

```
);
```

```
CREATE TABLE Employee (
```

```
    Employee_ID INT PRIMARY KEY AUTO_INCREMENT,
```

```
    Employee_Name VARCHAR(100) NOT NULL,
```

```
    Job_Title VARCHAR(50) NOT NULL,
```

```
    Department_ID INT,
```

```
    Total_Hours INT DEFAULT 0,
```

```
    FOREIGN KEY (Department_ID) REFERENCES Department(Department_ID)
```

```
);
```

```
ALTER TABLE Department
```

```
ADD COLUMN Manager_ID INT,  
ADD CONSTRAINT FK_Manager  
FOREIGN KEY (Manager_ID) REFERENCES Employee(Employee_ID);
```

```
CREATE TABLE Work_Hours (  
    Work_Hours_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Employee_ID INT,  
    Hours_Worked INT,  
    FOREIGN KEY (Employee_ID) REFERENCES Employee(Employee_ID)  
);
```

```
CREATE TABLE Supplier (  
    Supplier_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Supplier_Name VARCHAR(100) NOT NULL,  
    Contact_Info VARCHAR(150) NOT NULL  
);
```

```
CREATE TABLE Supply (  
    Supply_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Supply_Type VARCHAR(50) NOT NULL,  
    Quantity INT,  
    Supplier_ID INT,  
    Order_Date DATE,  
    Expected_Delivery DATE,  
    Actual_Delivery DATE,  
    FOREIGN KEY (Supplier_ID) REFERENCES Supplier(Supplier_ID)
```

);

```
CREATE TABLE Wine (  
    Wine_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Wine_Name VARCHAR(50) NOT NULL,  
    Total_Produced INT DEFAULT 0,  
    Total_Distributed INT DEFAULT 0  
);
```

```
CREATE TABLE Inventory (  
    Inventory_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Wine_ID INT,  
    In_Stock INT DEFAULT 0,  
    Last_Updated TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (Wine_ID) REFERENCES Wine(Wine_ID)  
);
```

```
CREATE TABLE Distributor (  
    Distributor_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Distributor_Name VARCHAR(100) NOT NULL,  
    Dis_Contact_Info VARCHAR(150) NOT NULL  
);
```

```
CREATE TABLE Wine_Order (  
    Order_ID INT PRIMARY KEY AUTO_INCREMENT,
```

```
Distributor_ID INT,  
Wine_ID INT,  
Order_Date DATE,  
Shipping_Date DATE,  
Delivery_Status VARCHAR(50) DEFAULT 'Pending',  
Quantity INT,  
FOREIGN KEY (Distributor_ID) REFERENCES Distributor(Distributor_ID),  
FOREIGN KEY (Wine_ID) REFERENCES Wine(Wine_ID)  
);
```

```
INSERT INTO Department (Department_Name) VALUES  
('Finance'), ('Marketing'), ('Production'), ('Distribution');
```

```
INSERT INTO Employee (Employee_Name, Job_Title, Department_ID, Total_Hours) VALUES  
('Brennan Cheatwood', 'Finance Manager', 1, 200),  
('James Guy', 'Marketing Manager', 2, 160),  
('Bill Market', 'Marketing Assistant', 2, 140),  
('Jack Black', 'Production Manager', 3, 160),  
('George Costanza', 'Distribution Manager', 4, 160);
```

```
UPDATE Department SET Manager_ID = 1 WHERE Department_ID = 1;  
UPDATE Department SET Manager_ID = 2 WHERE Department_ID = 2;  
UPDATE Department SET Manager_ID = 4 WHERE Department_ID = 3;  
UPDATE Department SET Manager_ID = 5 WHERE Department_ID = 4;
```

```
INSERT INTO Work_Hours (Employee_ID, Hours_Worked) VALUES
```

(1, 40), (2, 40), (3, 35), (4, 40), (5, 40);

INSERT INTO Supplier (Supplier_Name, Contact_Info) VALUES

('Bottles and Whatnot Inc.', 'bottlesandwhatnot@yahoo.com'),

('3M Label Department', '3mlabels@2m.com'),

('Corks n Company.', 'corksnc@hotmai.biz');

INSERT INTO Supply (Supply_Type, Quantity, Supplier_ID, Order_Date, Expected_Delivery, Actual_Delivery) VALUES

('Bottles', 1000, 1, '2025-05-01', '2025-05-05', '2025-05-05'),

('Labels', 2000, 2, '2025-05-02', '2025-05-06', '2025-05-06'),

('Corks', 500, 3, '2025-05-03', '2025-05-07', '2025-05-07');

INSERT INTO Wine (Wine_Name, Total_Produced, Total_Distributed) VALUES

('Merlot', 500, 300),

('Cabernet', 400, 250),

('Chablis', 300, 200),

('Chardonnay', 600, 400);

INSERT INTO Inventory (Wine_ID, In_Stock) VALUES

(1, 200),

(2, 150),

(3, 100),

(4, 200);

INSERT INTO Distributor (Distributor_Name, Dis_Contact_Info) VALUES

```
('East Coast Distributors', 'contact@eastcoast.com'),  
( 'West Coast Wines', 'contact@westcoast.com'),  
( 'Southside Wine Supply', 'contact@southside.com');
```

```
INSERT INTO Wine_Order (Distributor_ID, Wine_ID, Order_Date, Shipping_Date,  
Delivery_Status, Quantity) VALUES
```

```
(1, 1, '2025-05-05', '2025-05-07', 'Delivered', 50),  
(2, 2, '2025-05-06', '2025-05-08', 'Delivered', 30),  
(3, 3, '2025-05-07', '2025-05-09', 'Delivered', 20),  
(1, 4, '2025-05-08', '2025-05-10', 'Pending', 40);
```

```
-- Display Data
```

```
SELECT * FROM Department;
```

```
SELECT * FROM Employee;
```

```
SELECT * FROM Work_Hours;
```

```
SELECT * FROM Supplier;
```

```
SELECT * FROM Supply;
```

```
SELECT * FROM Inventory;
```

```
SELECT * FROM Wine;
```

```
SELECT * FROM Distributor;
```

```
SELECT * FROM Wine_Order;
```

Python Code:

```
import mysql.connector
```

```
config = {  
    'host': 'localhost',  
    'user': 'your username', #This part is just full of inputs that you need to put in manually.  
    'password': 'your password',  
    'database': 'your database name'  
}
```

Like, yk where you replace the things with your info. In this code...

```
try:
```

```
    conn = mysql.connector.connect(**config)
```

```
    cursor = conn.cursor()
```

```
    cursor.execute("SHOW TABLES")
```

```
    tables = cursor.fetchall()
```

```
    for (table_name,) in tables:
```



```
print(f"\n--- Table: {table_name} ---")

cursor.execute(f"SELECT * FROM {table_name}")

rows = cursor.fetchall()

if rows:

    col_names = [desc[0] for desc in cursor.description]

    print(" | ".join(col_names))

    print("-" * 50)

    for row in rows:

        print(" | ".join(str(cell) for cell in row))

else:

    print("Nothing in this table")

cursor.close()

conn.close()

except mysql.connector.Error as err:

    print("Database error:", err)
```

Command Line Output:

```
+-----+
| Tables_in_bacchus_winery |
+-----+
| department
| distributor
| employee
| inventory
| supplier
| supply
| wine
| wine_order
| work_hours
+-----+
9 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM Department;
```

Department_ID	Department_Name	Manager_ID
1	Finance	1
2	Marketing	2
3	Production	4
4	Distribution	5

4 rows in set (0.00 sec)

```
mysql> SELECT * FROM Employee;
```

Employee_ID	Employee_Name	Job_Title	Department_ID	Total_Hours
1	Brennan Cheatwood	Finance Manager	1	200
2	James Guy	Marketing Manager	2	160
3	Bill Market	Marketing Assistant	2	140
4	Jack Black	Production Manager	3	160
5	George Costanza	Distribution Manager	4	160

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM Work_Hours;
```

Work_Hours_ID	Employee_ID	Hours_Worked
1	1	40
2	2	40
3	3	35
4	4	40
5	5	40

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM Supplier;
```

Supplier_ID	Supplier_Name	Contact_Info
1	Bottles and Whatnot Inc.	bottlesandwhatnot@yahoo.com
2	3M Label Department	3mlabels@2m.com
3	Corks n Company.	corksnc@hotmai.biz

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM Supply;
```

Supply_ID	Supply_Type	Quantity	Supplier_ID	Order_Date	Expected_Delivery	Actual_Delivery
1	Bottles	1000	1	2025-05-01	2025-05-05	2025-05-05
2	Labels	2000	2	2025-05-02	2025-05-06	2025-05-06
3	Corks	500	3	2025-05-03	2025-05-07	2025-05-07

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM Inventory;
```

Inventory_ID	Wine_ID	In_Stock	Last_Updated
1	1	200	2025-05-16 18:44:10
2	2	150	2025-05-16 18:44:10
3	3	100	2025-05-16 18:44:10
4	4	200	2025-05-16 18:44:10

4 rows in set (0.00 sec)

```
mysql> SELECT * FROM Wine;
```

Wine_ID	Wine_Name	Total_Produced	Total_Distributed
1	Merlot	500	300
2	Cabernet	400	250
3	Chablis	300	200
4	Chardonnay	600	400

4 rows in set (0.00 sec)

```
mysql> SELECT * FROM Distributor;
```

Distributor_ID	Distributor_Name	Dis_Contact_Info
1	East Coast Distributors	contact@eastcoast.com
2	West Coast Wines	contact@westcoast.com
3	Southside Wine Supply	contact@southside.com

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM Wine_Order;
```

Order_ID	Distributor_ID	Wine_ID	Order_Date	Shipping_Date	Delivery_Status	Quantity
1	1	1	2025-05-05	2025-05-07	Delivered	50
2	2	2	2025-05-06	2025-05-08	Delivered	30
3	3	3	2025-05-07	2025-05-09	Delivered	20
4	1	4	2025-05-08	2025-05-10	Pending	40

4 rows in set (0.00 sec)

```
mysql> |
```