**Group Name:** Willson  
**Team Members:** Julio Pochet, Andrew Stiles, James Cortez  
**Selected Case Study:** Bacchus Winery

**Milestone #2 – Revised Business Rules, ERD, SQL Schema and Python Script**

**Revised Business Rules for Bacchus Winery**

**1. Wine Production:**

* Bacchus Winery produces four types of wine: **Merlot, Cabernet, Chablis, and Chardonnay**.
* The winery grows its own grapes for wine production.

**2. Employees:**

* The winery employs personnel across different departments:
  + **Janet Collins:** Finances and payroll.
  + **Roz Murphy:** Head of marketing.
  + **Bob Ulrich:** Marketing assistant.
  + **Henry Doyle:** Production line manager (oversees 20 employees).
  + **Maria Costanza:** In charge of distribution.
* Employees **track their working hours**, which are reported **quarterly**.

**3. Suppliers:**

* The winery works with three suppliers:
  + **Supplier 1:** Bottles and corks.
  + **Supplier 2:** Labels and boxes.
  + **Supplier 3:** Vats and tubing.
* The winery receives **monthly shipments** from suppliers.
* Supplier delivery performance is tracked **(expected vs. actual delivery dates).**

**4. Supply Inventory:**

* **Stan and Davis Bacchus** are responsible for managing inventory and placing orders.
* They are considering an **online system for inventory tracking** and automated ordering.

**5. Distribution:**

* **Maria Costanza** manages distribution.
* Distributors should be able to place **orders online** and track shipments.
* The winery needs to track **which distributors carry which wines**.

**6. Sales Tracking:**

* Sales data should be analyzed to determine which wines are selling well or underperforming.
* Reports should identify **low-performing wines and top-selling distributors**.

**7. Inventory & Performance Monitoring:**

* The winery needs to generate reports including:
  + **Supplier delivery performance (monthly tracking).**
  + **Wine sales trends (which wines are selling well or poorly).**
  + **Employee work hours per quarter.**
  + **Current stock levels to track low inventory and slow-moving products.**

**8. Reporting:**

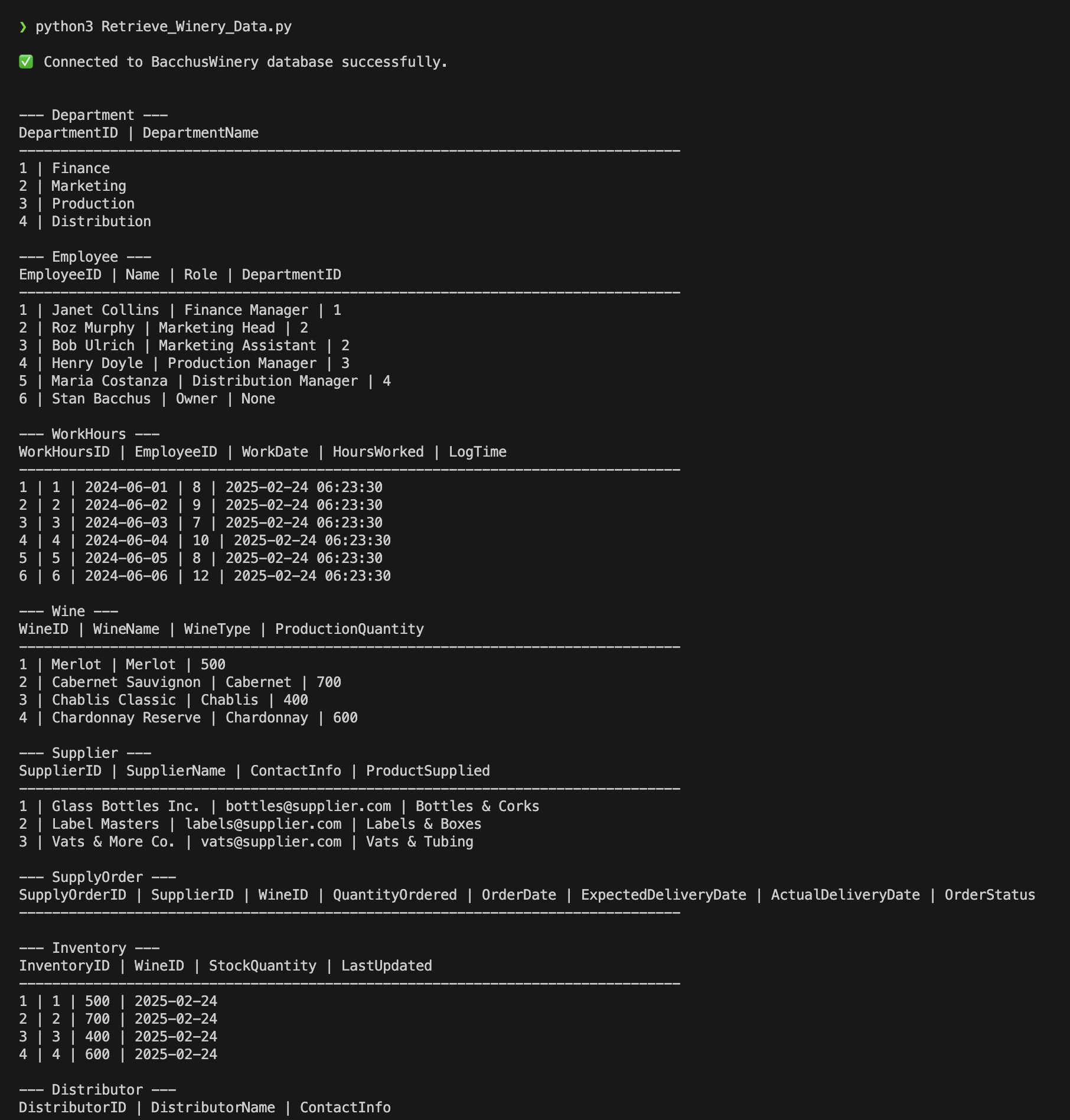
* Monthly reports should include:
  + **Inventory Status**
  + **Sales performance**
  + **Employee working hours**
* A **yearly snapshot report should summarize all key operational metrics: supplier deliveries, wine sales, and employee hours worked.**

**Revised ERD:**

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AI-generated content may be incorrect.**

**Screenshot(s) of the data displayed from the tables:**

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**A screenshot of a computer

AI-generated content may be incorrect.**