**Delta Team:** Paul Fralix, Tyler Freese, Reed Bunnell, Sylvester Brandon

**Bacchus Winery Case Study**

**Business Rules:**

• Each EMPLOYEE has a unique ID and is identified by name, role, email, and phone.  
• Each EMPLOYEE may have multiple WORKLOG entries to record their hours worked.  
• Each WORKLOG entry belongs to exactly one EMPLOYEE and includes a date and hours worked.

• Each FINANCE entry has a unique ID and tracks a description, amount, and date.  
• Each FINANCE entry records payroll transactions for one EMPLOYEE.

• Each SUPPLIER has a unique ID and is identified by name and contact information.  
• Each SUPPLIER may receive multiple SUPPLY ORDERS.

• Each SUPPLY ORDER has a unique ID, order date, status, and is placed with one SUPPLIER.  
• Each SUPPLY ORDER may include multiple SUPPLY ITEMS.

• Each SUPPLY ITEM has a unique ID, name, and quantity.  
• Each SUPPLY ITEM is part of exactly one SUPPLY ORDER.

• Each CUSTOMER has a unique ID and is identified by name, email, and phone.  
• Each CUSTOMER may place multiple ORDERS.

• Each ORDER has a unique ID, order date, status, and tracking information.  
• Each ORDER is placed by exactly one CUSTOMER.  
• Each ORDER may contain multiple ORDER DETAILS.

• Each ORDER DETAIL links one ORDER to one PRODUCT with a specified quantity.  
• Each PRODUCT has a unique ID, name, price, and inventory count.  
• Each PRODUCT may appear in multiple ORDER DETAILS.

## Entity Relationship Diagram (ERD)

A diagram of a company

AI-generated content may be incorrect.

This ERD represents the key entities and relationships for managing customer orders, supplier interactions, employee records, and financial tracking in the Bacchus Winery system.