Ryan Monnier, Zachariah King, Jacob Achenbach

CSD 310

Bacchus Winery Project

20-Feb-2025

**Bacchus Winery**

Initial ERD:

A computer screen with purple squares

AI-generated content may be incorrect.

Business Rules:

**Personnel**:

* Bacchus Winery employs:
  + Stan Bacchus (Owner)
  + Davis Bacchus (Owner)
  + Janet Collins (Finance & Payroll)
  + Roz Murphy (Marketing)
  + Bob Ulrich (Marketing Assistant)
  + Henry Doyle (Production)
  + Maria Costanza (Distribution).
* Each employee has a unique ID
* Employees belong to a department
* Employee hours worked need to be tracked for each quarter.

**Suppliers**:

* Bacchus Winery receives supplies from three different suppliers:
  1. Supplier 1: Bottles and corks.
  2. Supplier 2: Labels and boxes.
  3. Supplier 3: Vats and tubing.
* Supplies are delivered on a monthly basis.
* Delivery status will be defined as on-time or delayed.
* Each supply type has an expected delivery date, and the actual delivery date needs to be compared to track delays.

**Inventory**:

* Bacchus Winery produces four types of wines:
  + Merlot
  + Cabernet
  + Chablis
  + Chardonnay
* Wine inventory is tracked along with the raw materials like grapes.
* Wine sales performance is tracked by the type of wine and reports must be generated to show which wine is selling well and which is not

**Distribution**:

* Bacchus Winery sells wines through distributors.
* Each distributor can carry multiple types of wines.
* Distributors are able to place online orders, and the winery should track shipments and orders made by distributors.

**Reports**:

* Bacchus Winery needs several reports:
  1. Supplier Report:
     + A monthly report that shows whether suppliers are delivering on time.
  2. Wine Sales Report:
     + Shows how each wine is selling.
  3. Employee Hours:
     + A quarterly report showing how many hours each employee worked in the past four quarters.

**Technology:**

* The winery wants to implement a system that allows online ordering for distributors and possibly online supply ordering to improve efficiency.