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### CSD-310

Milestone 1

### **Business Rules for Bacchus Winery**

1. **Wine Production**:
   1. Bacchus Winery produces four types of wine: Merlot, Cabernet, Chablis, and Chardonnay.
   2. The winery grows its own grapes for the wine production process.
2. **Employees**:
   1. The winery employs a variety of personnel, including:
      1. **Janet Collins**: In charge of finances and payroll.
      2. **Roz Murphy**: Head of the marketing department.
      3. **Bob Ulrich**: Assistant in marketing.
      4. **Henry Doyle**: Production line manager, overseeing 20 employees.
      5. **Maria Costanza**: In charge of distribution.
   2. Employees need to track their working hours, which are reported quarterly.
3. **Suppliers**:
   1. The winery works with three main suppliers:
      1. Supplier 1: Bottles and corks.
      2. Supplier 2: Labels and boxes.
      3. Supplier 3: Vats and tubing.
   2. The winery receives supplies on a regular basis, typically every month.
   3. Suppliers must deliver on time. The delivery schedule should be monitored to identify discrepancies between expected and actual delivery times.
4. **Supply Inventory**:
   1. Stan and Davis Bacchus are responsible for keeping track of the supply inventory and ensuring that orders are placed promptly.
   2. They are considering an online system for more efficient inventory tracking and ordering.
5. **Distribution**:
   1. **Maria Costanza** is in charge of the distribution process.
   2. Distributors should be able to place orders online, and the system should track shipments.
   3. The winery needs to track which distributor carries which wines.
6. **Sales Tracking**:
   1. The winery needs to analyze the sales of different wines to see if they are meeting their expectations.
   2. A report should be available to determine if any wine is not selling as expected.
   3. The system should provide insights into distributor performance in terms of sales.
7. **Inventory and Performance Monitoring**:
   1. Bacchus Winery needs to generate various reports, such as:
      1. A report showing supplier delivery times.
      2. A report showing wine sales, identifying which wines are selling well or poorly.
      3. A report tracking employee hours worked per quarter.
8. **Reporting**:
   1. Monthly reports should track the inventory status, sales performance, and employee working hours.
   2. A yearly snapshot report should summarize all key operational metrics: supplier deliveries, wine sales, and employee hours worked.

**Initial ERD:**

**A diagram of a computer

AI-generated content may be incorrect.**