Group Name: CDJ

Members: Casey Rose, Darreon Tolen & Jennifer Hoitenga

Professor Martinez

February 9th, 2025

Project Milestone #1

We have officially named our group, "CDJ" which corresponds to the first initials of each member of our group. Our group chose the Bacchus Winery case study for our final project.

Business rules:

* A WINERY has multiple EMPLOYEES
* A WINERY buys multiple SUPPLIES
* A WINERY produces multiple WINES
* A WINERY records SALES transactions
* A SUPPLY is provided by one SUPPLIER
* Each SUPPLIER provides one or more SUPPLIES
* A WINE can be sold multiple times
* A SALE transaction includes one specific WINE
* A SALE is made to one DISTRIBUTOR
* A DISTRIBUTOR purchases WINE from the WINERY
* Each EMPLOYEE has a recorded number of hours worked

Assumptions:

The winery operates with the assumption that each winery must have at least one employee but can exist without producing wine initially. Supplies are ordered from suppliers with each supply order linked to a single supplier. Deliveries are expected on a periodic basis with delays tracked against expected delivery dates. Each wine has an inventory quantity that is actively managed. Sales transactions are recorded per wine and distributors purchase directly from the winery with each sale linked to a single distributor. Distributors can carry multiple wines and order statuses are tracked. Employee management assumes that each employee belongs to a specific department such as finance, marketing, production or distribution. Work hours are tracked daily and analyzed quarterly to monitor productivity.

Initial ERD:

A diagram of a computer

AI-generated content may be incorrect.