Red Team

Kristopher Kuenning, Dario Gomez, Scott Macioce, Juedeja Richard

CSD-310

Case Study Project

Milestone #1:

Find your group area and introduce yourself. Include when and how you will be available during the week. Read through the case studies and, as a group, select one for your final project. Create a list of business rules for your case study, including any assumptions you make.  Using those business rules, create an initial ERD to satisfy those rules.  The deliverable this week is a Word document that has your group name at the top, members of the team, which case study was selected, business rules, and an initial ERD.

Case study: Bacchus Winery

Bacchus Winery Stan and Davis Bacchus inherited their winery from their father, George, three years ago upon his retirement. While they both appreciate all the hard work their father put into the business, they are anxious to incorporate new business methods to help them improve their products and customer service.

When they started running the winery, the owners decided to keep all existing personnel in place, hoping to effect minimum change during the turnover. Presently they employ Janet Collins, who is in charge of all finances and payroll; Roz Murphy, who heads up the marketing department, she has one assistant, Bob Ulrich, working for her; Henry Doyle, who manages the production line, as well as 20 employees; and Maria Costanza, who is in charge of distribution.

Bacchus Winery grows the grapes needed to make a Merlot, a Cabernet, a Chablis, and a Chardonnay. They have been receiving their supplies; bottles and corks from one supplier, labels and boxes from another, and vats and tubing from a third supplier, each of which ships the components every month or so. Stan and Davis are responsible for keeping track of the supply inventory and would like to find a more efficient method of keeping track and ordering supplies, perhaps over the internet. Maria, who is responsible for distribution, would like their distributors to be able to order online, and to be able to track shipments.

Stan and Davis know the yearly ‘snapshot’ of the business is due in a few weeks, and need the information to determine the state of the inventory, the distribution and the employees. They need information on…

- Are all suppliers delivering on time?

- Is there a large gap between expected delivery and actual delivery?

- A month by month report should show problem areas.

- The wine distribution, are all wines selling as they thought? Is one wine not selling? Which distributor carries which wine?

- Employee time. During the last four quarters, how many hours did each employee work?

Business Rules:

* The system should record the number of hours worked by the employee per quarter.
* Track expected and actual delivery dates per shipment.
* Various items are used to make wine, like bottles, labels, corks, and vats.
* All suppliers, employees, distributors, and products should have their own ID.
* 4 different types of wine produced.
* The winery uses different distributors.
* Quantity of bottles sold each month by type and the cost of each bottle.
* Track shipments to distributors.
* Distributors can order online, with real-time inventory.
* Track materials purchased from suppliers.
* Assume websites are operational for distribution.
* Assume all employees are 40 hours and paid hourly.
* Employee schedule times; In and Out times
* Online inventory sales update in real-time to project in-stock quantities.

Reports:

* Generate monthly reports for supplier performance.
* Report on total hours worked by employees over the last 4 quarters.
* What distributors carry which wines and deliver at what times?
* Wine Sales by type.

ERD:

A screenshot of a computer

AI-generated content may be incorrect.