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**Recharge Vending**

**Executive Summary**

Recharge Vending is the leading provider of vending machines for educational institutions. For many institutions the effort to maintain and stock machines is simply too much. However, the students and faculty both desire and expect to have various quick choices of snacks and drinks. So, institutions contract with partners, such as Recharge to supply, stock, and service machines for the entire campus. While the vendor needs approval for where to place machines it is mostly a paper process as requests are seldom denied.

The revenue model for Recharge is a fixed rate based on the number of buildings the institution wants to supply and then a percentage of profits, generally 25%. The network of machines run by Recharge on any given campus offers snacks, drinks, and ice cream. The machines supplied vary in type and capabilities which can impact sales. Currently Recharge uses an OLTP database to keep track of machines they own, location of the machine, products offered, as well as sales.

Recharge’s management has decided that converting all the product and sale data into an OLAP system to improve reporting would increase profits and give them a competitive advantage. By aggregating information across all customers on buying habits, Recharge can improve the decision process for where to place machines, what to stock, what payment types customers prefer, and in which slots items sell best. In addition, by improving reporting, the service department expects to be able to proactively schedule service to keep machines in good working order.

**Business Requirements**

Management

* Machine performance in regard to sales and profit based on location, type of product sold, and machine model over time.
* Does the position of the product in the machine impact sales? Example, does putting a product in the top left of the machine sell more than the same product in the bottom right?
* Which products sell the best in each department?
* Which product brands and manufacturers sell best overall?

Service

* Which machines are used the most? Which slots in the machine are most used? These data points would impact how often they require service.
* Which products sell out any given week? This information can be used to determine which products should perhaps use multiple slots in a machine.

**Information Package (IP)**

