**Team Member Names:** Sadie Clarine, Miciah Lewis, Jacob Neufeld

**Executive Summary**

Broadcloth Clothing designs, manufactures, and distributes clothing to brick-and-mortar stores around the world. Broadcloth Clothing takes time and consideration in creating new models for their styles of clothing. Models can be made in multiple sizes and colors, created in any of the independently owned factories, and shipped around the world.

The problem that Broadcloth Clothing is currently facing is the complexity of shipping internationally. All shipments need to go through customs and have to be batched together to reduce costs. Batching is determined by how many items of each product is being produced and by figuring out which factory should produce them. There are also many risks with daily operations in regard to the right clothes being produced on time and customers getting their correct shipments.

In order to solve the current issues Broadcloth Clothing is facing, a data mart should be implemented. With the use of a data mart, managers can easily perform optimized reporting, archival of data, and consolidation of data. This will allow them to recognize problems as they arrive and address them immediately.

It is understood that implementing a data mart will take much time and detail. Team members will conduct several interviews with Broadcloth Clothing employees to determine exact business requirements. After interviews have been regulated, team members will be able to define key business metrics, data granularity, data warehouse size, the frequency for data refreshing, data presentation, and user aggregation appropriate for Broadcloth Clothing.

Upon completion of the data mart, mistakes can be found earlier in Broadcloth Clothing’s shipping process, allowing them to move above competitors in the process. Data will be stored in one place, granting easy and simple access to all employees and integration of data from multiple applications. A data mart will advance Broadcloth’s system significantly and solve issues regarding international shipping.

**Business Requirements**

* What are sales like in regard to item sizes, item colors, daily, weekly, and monthly by customers, and managers?
  + This question would be important for an executive as it would help them answer sales questions in regard to location, products, and managers.
* How do all of Broadcloth’s factories compare in number of employees, average weekly shipments, total production expenses, and registered customers across time?
  + This question would be important for a manager as it would help them answer general and expense questions regarding a specific factory as well as see similarities between customers at this factory.
* How do shipments from individual factories compare against number of shipments daily, weekly, and monthly, customers, and items?
  + This question would be important for a factory manager as it would help them answer shipment questions on their factory as well as to see how they match up against other factories in their region.
* How did the factory employees do relative to number of products manufactured, number of shipments logged, and average time to complete a production task across time?
  + This question would be important for a manager as it would help them answer if the new employee is stacking up to other employees and see if the new employee is completing tasks in a timely manner.

**Information Package**

Information Subject: Clothing Sales

*Dimensions x Hierarchies*

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Factory** | **Model** | **Customer** |
| Year | City | Size Low | Person Category |
| Quarter | State/Province | Size High | City |
| Season | Country | Color | State/Province |
| Month | Manager | Price | Country |
| Date | Max Workers |  |  |
| Facts: Product Sales, Number of Shipments, Factory Sales, Quantity, Price, Order Date, Ship Date | | | |