**Coffee Merchant Solution Development Plan**

Solution: Coffee Merchant

Owner: Nick Bascone, Sasha Shadrina, Kyle Waggoner, Anna Andrews

Date: 09/22/2021

Change Log

|  |  |  |
| --- | --- | --- |
| Who | When | What |
| Nick Bascone | 9/22/2021 8:20pm | Converted from publication industries template to Coffee Merchant assignment |
| Sasha Shadrina | 9/23/2021  11:15am | Structured the star schema in Visio 2017/2019 |
| Sasha Shadrina | 10/5/2021  5:15am | Began SQL code to create OLAP framework; completed half |
| Nick Bascone | 10/5/2021  11:00am | Modified Excel to match with Visio made by Sasha |
| Anna Andrews | 10/6/2021  2:15 pm | Edited executive summary, business requirements, and information package. |

Executive Summary

Coffee Merchant is a small shop that sells a variety of teas and coffees. The sources of these teas and coffees come from many countries and must be tracked from the origins to the place where it is sold. The Coffee Merchant company wants a BI data warehouse solution that will provide sales information to managers and some employees about orders and customers. It needs to have a data warehouse to hold its data to be analyzed for past trends, and to be used to predict future trends. It currently has lots of data that needs to be organized.

Coffee Merchant has an OLTP system in place to capture and maintain transactional data. As it has expanded, Coffee Merchant’s management has identified a need for an OLAP system to optimize reporting, archive and consolidate data, and gain insight into historical sales data.

Business Requirements

1. How are customer purchases affected by the seasons?
   * Dimensions: date, customer, product
   * This question is important to answer to understand if/how seasons affect customers’ product preferences. In turn, this insight could be used to maximize profit by carrying more or less of products based on their sale performances.
2. Historically, which products do individual employees sell the most of?
   * Dimensions: date, employee, product
   * Answering this question may provide insight on products that individual employees excel or underperform at selling. In turn, employees could be given incentive to improve sale tactics for certain products.
3. How many products are sold per month, product type, employee, and state as compared to previous months?
   * Dimensions: date, product, employee
   * Answering this question is important to understanding sales performance in general, based on months, product type, employee, and state.

**Information Package**

*Dimensions*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Hierarchies** | ***Date*** | ***Product*** | ***Customer*** | ***Employee*** |
| *Year* | *Product Type* | *DOB* | *Hire Date* |
| *Quarter* | *Country* | *Gender* | *Birthdate* |
| *Month* |  | *Credit Limit* | *Gender* |
| *Date* |  | *City* | Type |
| *Day of Week* |  | *State* |  |
| *Day of Month* |  | *Tax Rate* |  |
| *Season* |  | *Zip Code* |  |
| *Holiday Flag* |  |  |  |
| ***Facts:*** *Order Date, Ship Date, Price, Cost, Quantity, Discount* | | | |