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| **Project Charter** | | | |
| **Project Name** | IST 722 Group Project Assignment – FudgeFlix & Fudgemart | | |
| **Project Description** | Build Federated Data Warehouse to allow for analysis of corporate data focusing on Order Fulfillment. | | |
| **Project Manager** | **Dan Caley** | **Date Approved** | **1/15/2022** |
| **Project Sponsor(s)** | **Humayun Khan** | **Signature** |  |
| **Business Case** | | **Expected Goals/Deliverables** | |
|  | | Requirements | |
|  | | MOLAB  Presentation | |
| **Successfully guide the merging of FudgeFlix and Fudgemart data sources to ensure minimal loss in business processes throughout the transition. Ensure all aspects of the business remain operational from sales to inventory to order fulfillment and everything in between.** | |  | |
|  | | Deliverables  1. High-level dimensional model  2. Detail-level dimensional model  3. ETL documentation  4. OLAP schemas  5. Final data Warehouse | |
| **Team Members** | |  | |
| **Name** | **Role** |  | |
| **Sam  Deery-Schmitt** | **Business Intelligence Analyst** |  | |
| **Jennifer Lammers Zimmer** | **Database Architect** |  | |
| **Mike Johnson** | **Database Administrator** |  | |
| **Dan Caley** | **Data Warehouse Developer** |  | |
|  |  |  | |
| **Risks and Constraints** | | **Milestones** | |
| **Order Fulfillment Time** | **How do we measure performance of advertised lead time vs actual lead time?** | **Monday: 1pm – 5pm** | **Milestone 1 - Project document** |
| **Order Fulfillment** | **Are the suppliers and shippers able to keep up with the orders?** | **Monday:**  **5pm – 9pm** | **3 - High-Level Dimensional Modeling** |
| **Order Fulfillment Capacity** | **Does the warehouse have enough capacity to handle incoming and outgoing products?** | **Tuesday:**  **1pm – 5pm** | **Milestone 2 - High-level dimensional modeling worksheet** |
|  |  | **Tuesday:**  **5pm – 9pm** | **4 - Detailed Dimensional Modeling** |
|  |  | **Wednesday:**  **10am – 1pm** | **6 - ETL Data Extraction** |
|  |  | **Wednesday:**  **1pm – 4pm** | **7 - ETL Data Loading** |
|  |  | **Thursday:**  **1pm – 5pm** | **9 - Business Intelligence** |
|  |  | **Thursday:**  **5pm – 10pm** | **Presentation** |

# **Business Requirements**

Increase profit across regions.

Provide excellent customer service.

Ensure orders are shipped in a timely manner.

Acquire new customers in target age groups.

# **Functional Requirements**

What is the order to ship lag by quarter?

What are sales by product and region?

Which products are the best-selling and worst-selling by category?

How positive is the sentiment about our products by week?

Which regions are we acquiring the most new customers in?

# **Business processes (related to above questions)**

1. Order fulfillment

2. Sales

3. Inventory

4. Customer Service

5. Sales Coverage

# **Business Process (selected from above) for integration implementation**

Facts

FM order\_date, shipped\_date

FF at\_queue\_date (assumption: order date), shipped\_date

Measures: order\_to\_ship\_lag

Dimensions

Date

Products (Integrate FF + FM)

Freight\_Vendor (fm\_ship\_via\_lookup + assume ff\_ship\_via)

Customers (Integrate FF + FM)

# **Comments**

Dan is the man!

Assumption: Fudgeflix used the US Postal Service for exporting all their movies and shows.