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| **Project Charter** | | | |
| **Project Name** | IST 722 Group Project Assignment – Fudgeflix & Fudgemart | | |
| **Project Description** | Build a data warehouse and BI platform to analyze order data. | | |
| **Project Manager** | Tanvi Borkar | **Date Approved** | 10/30/2020 |
| **Project Sponsor(s)** | Humayun H Khan | **Signature** |  |
| **Business Case** | | **Expected Goals/Deliverables** | |
|  | | **Requirements** | |
| The goal of the project is to streamline a business process from FudgeMart & FudgeFlix for analyzing and identifying patterns in orders to provide data-driven informed recommendations. | | * SQL Server * Microsoft Visual Studio * Microsoft PowerBi * Microsoft Excel * Schemas - FudgeFlix and FudgeMart | |
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|  | | **Deliverables**   * Project Document * High-level dimensional modeling worksheet * Detail-level dimensional modeling worksheet * Datawarehouse on SQL server * Initial ETL in SSIS * Business Intelligence in SSAS * Presentation and Demo | |
| **Team Members** | |  | |
| **Name** | **Role** |  | |
| Anushi Doshi | Data Engineer |  | |
| Avin Deshmukh | BI Architect |  | |
| Parth Lodaria | Data Architect |  | |
| Pranjal Sondkar | BI Analyst |  | |
| Rajvee Shah | BI Analyst |  | |
| Tanvi Borkar | Project Manager |  | |

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| **Risks and Constraints** | | **Milestones** | |
| 1 | Data Duplication | 1 | Project Charter (10/30/2020) |
| 2 | Data Redundancy | 2 | High-Level Dimensional Modeling (11/6/2020) |
| 3 | Data Inconsistency | 3 | Detailed Dimensional Modeling (11/6/2020) |
| 4 | Connectivity Issues | 4 | Build ROLAP (11/13/2020) |
|  |  | 5 | Perform ETL using SSIS (11/13/2020) |
|  |  | 6 | Create cubes using SSAS for analysis (11/19/2020) |
|  |  | 7 | Design Power BI dashboards (11/19/2020) |
|  |  | 8 | Presentation (11/19/2020) |

# **Business Requirements**

1. Uncovering inventory patterns and identifying areas of improvement
2. Identify the products that require increase in order frequency or discontinuation
3. Streamline order fulfillment data to generate functional reports.

# **Functional Requirements**

# Which category of products are in high demand?

1. Which DVD genres are most popular?
2. Measure the company performance - Yearly, Quarterly, Monthly.
3. Which are the products that have generated least revenue for the company?
4. How to determine the order status using shipping date?
5. How should the tracking of the products be done? – Make use of shipping date and order date.

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

1. Order Fulfillment
2. Sales Reporting
3. Billing/Payment
4. Customer Reviews/Feedback
5. Inventory Management .

\*We selected Business process 1 – Order Fulfillment for integration across both Fudgemart and Fudgeflix

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

**Facts:**

* Order Fulfillment Fact

**Dimensions:**

* Customer (Account, Customer)
* Products
* Suppliers
* Orders
* Date
* Accounts
* Title
* Genre

# **Comments**

N/A