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| --- | --- | --- | --- |
| **Project Charter** | | | |
| **Project Name** | IST 722 Group Project Assignment – Fudgeflix & Fudgemart | | |
| **Project Description** | Developing a BI infrastructure for Order Fulfillment | | |
| **Project Manager** | **Bhavish Kumar** | **Date Approved** |  |
| **Project Sponsor(s)** | **Humayun Khan** | **Signature** |  |
| **Business Case** | | **Expected Goals/Deliverables** | |
|  | | Requirements | |
| **Setup the infrastructure to enhance the order fulfillment business process for Fudgemart & Fudgeflix** | | |  | | --- | | 1. Customer - (fm\_customers, ff\_accounts) 2. Products – (fm\_products, ff\_titles) 3. Date – (external\_source) 4. Orders – (ff\_account\_titles, fm\_orders) | | |
|  | |  | |
|  | |  | |
|  | | Deliverables | |
| **Team Members** | | **Business Intelligence infrastructure & insights to track the effectiveness of order fulfillment** | |
| **Name** | **Role** |  | |
| **Pranav Kottoli Radhakrishna** | **Data Engineer** |  | |
| **Saheb Singh** | **Data Engineer** |  | |
| **Shahzeb Anwar** | **Data Engineer** |  | |
| **Prankur Garg** | **BI Analyst** |  | |
| **Bhavish Kumar** | **Project Manager** |  | |
| **Risks and Constraints** | | **Milestones** | |
|  | **Technical & connectivity issues on Remote Labs** | **Project Charter** |  |
|  | **Difficult to conduct in person meetings which are more effective** | |  | | --- | | **High-level dimensional modeling worksheet** | |  |
|  |  | **Detail-level dimensional modeling worksheet**   |  | | --- | |  | |  |
|  |  | |  | | --- | | **ROLAP schema** | |  |
|  |  | |  | | --- | | **ETL using SSIS** | |  |
|  |  | |  | | --- | | **MOLAP** | |  |
|  |  | |  | | --- | | **Reports and Dashboards using Excel & Power BI** | |  |

# **Business Requirements**

1. Decrease in Lag time between order placement & delivery: Ensuring that the orders are delivered on time
2. Improve customer satisfaction: By ensuring that the orders are delivered on time, we can improve customer satisfaction

# **Functional Requirements**

1. Who are the top shippers in terms of delivery times?
2. Which products take the minimum amount of time to get shipped?
3. Which product department causes delayed delivery?
4. Which customer location has the highest average lag time between order placement & delivery?

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

1. **Order Fulfillment**

2. Sales

3. Product Ratings

4. Account Billing

5. Title Recommendation

# \*we selected **Order Fulfillment** for integration across both fudgemart and fudgeflix.

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

**Facts**

1. Order Fulfillment

**Dimensions**

1. DimCustomer
2. DimProduct
3. DimShipper
4. DimDate

# **Comments**