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| **Project Charter – Group 3** | | | |
| **Project Name** | IST 722 Group Project Assignment – Fudgeflix & Fudgemart | | |
| **Project Description** | Optimizing the sales and order fulfillment process | | |
| **Project Manager** | **Ceara Stweart** | **Date Approved** | **12/12/23** |
| **Project Sponsor(s)** | **Dr. Khan** | **Signature** |  |
| **Business Case** | | **Expected Goals/Deliverables** | |
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|  | |  | |
| Optimizing the sales and order fulfillment process for Fudgecorp | |  | |
|  | |  | |
|  | | Deliverables | |
| **Team Members** | |  | |
| **Name** | **Role** | * **Charter** * **High-level dimension modeling worksheet** * **Detailed-level dimensional modeling worksheet** * **Data Warehouse on SQL Server** * **ETL on SSIS** * **Business Intelligence** * **Presentation** | |
| **Ceara Stewart** | **SSIS & PowerBI Master** |  | |
| **Blake Casey** | **SSIS Master** |  | |
| **Cristobal Gavaldon** | **Dimensional Modeler** |  | |
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|  |  |  | |
| **Risks and Constraints** | | **Milestones** | |
|  |  | **12/12/23** | **Charter Completed/Approved** |
|  |  | **12/13/23** | **High-Level Dimensional Model** |
|  |  | **12/14/23** | **Detailed-Dimensional Model** |
|  |  | **12/15/23** | **SSIS troubleshooting** |
|  |  | **12/16/23** | **SSIS troubleshooting** |
|  |  | **12/17/23** | **SSIS troubleshooting + Presentation** |
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# **Business Requirements**

Optimize the sales and order fulfillment process by implementing an integrated inventory management system with real-time updates and automated order processing.

# **Functional Requirements**

* Inventory integration
  + Real-time inventory updates
  + Centralized inventory view
* Automated order processing
  + Order placement
  + Order verification
* Order status and tracking
  + Internal order tracking
  + Customer order status
* Integration with customer support
  + Refund and return processing
* Reporting and analysis
  + Order performance management

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

1. Fudgemart (FM) Sales
2. Fudgeflix (FF) Billing
3. FM & FF overall revenue
   1. fm\_products product\_id join to fm\_order\_details product\_id \* fm\_order\_details order\_qty < - > ab\_billed\_amount from ff\_account\_billing
4. Fudgemart reviews
5. FM & FF order fulfillment with
   1. at\_queue\_date from ff\_account\_titles < - > order\_date from fm\_orders
   2. at\_shipped\_date from ff\_account\_titles < - > shipped\_date from fm\_orders
   3. lag time

# \*we selected business process 5 for integration across both fudgemart and fudgeflix.

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

Facts

* FactOrderFulfillment
  + Customer\_id
  + Order\_id
  + OrderDate
  + ShippedDate
  + LagTime

Dimensions

* DimDate
* DimCustomer
* DimProduct

# **Comments**

* Double check your source SQL joins from Fudgemart and Fudgeflix
* Change the data types for derived columns to ensure correct linkage
* Ensure to pull the correct product\_id from Fudgeflix