### **Project Title** - Generate Insights to Solve a Supply Chain Issue in FMCG Domain

#### **Problem Statement:**

- GDS Mart is a growing FMCG manufacturer headquartered in Gujarat, India. It is currently operational in three cities Surat, Ahmedabad and Vadodara. They want to expand to other metro/tier1 cities in the next 2 years.
- Problem: GDS Mart is facing issues with on-time and in-full deliveries, impacting customer contracts.
- Suspected reasons: Late delivery, not delivering in full.

#### **Objective:**

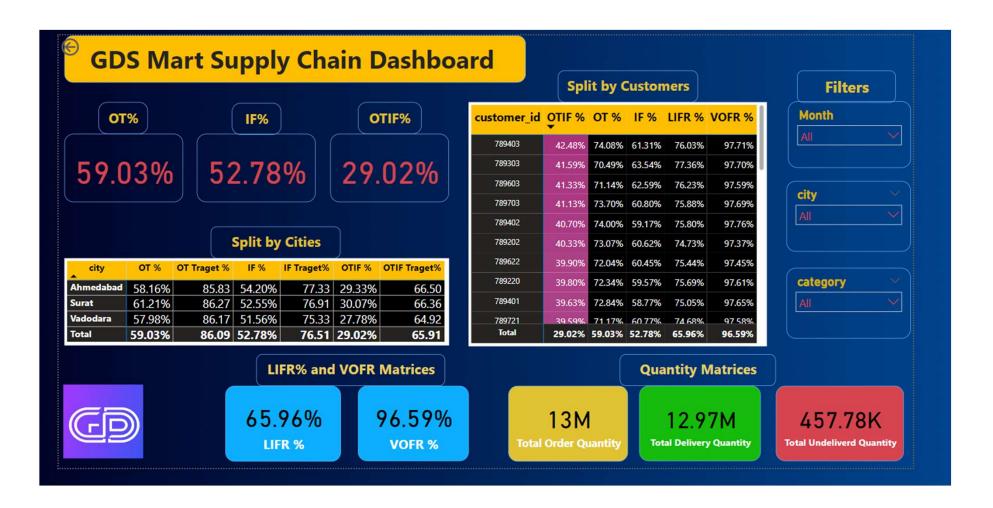
Develop a system to measure 'On-time Delivery (OT) %,' 'In-full Delivery (IF) %,' and 'On-Time in Full (OTIF) %' for customer orders daily against target service levels.

**Team Name - Analyst Aces** 

#### **Team Members**

- Ram Narayan Tiwari
- Aradhana Jit

#### **Dashboard Overview**







# © GDS Mart Supply Chain Dashboard



☐ AM Tea 500

customer_name	Total Order Quantity	Total Delivery Quantity	Total Undeliverd Quantity	LIFR %	VOFR %	IF %	IF Traget%	от %	OT Traget %	OTIF %	OTIF Traget%
Viveks Stores	760300	741805	18495.00	75.06%	97.57%	60.07%	81.00	70.61%	89.00	39.44%	72.50
Vijay Stores	1176293	1127743	48550.00	59.23%	95.87%	44.98%	76.00	72.45%	89.33	28.28%	68.00
Sorefoz Mart	765536	729757	35779.00	53.40%	95.33%	39.19%	72.00	72.67%	87.00	25.89%	62.50
Rel Fresh	1155598	1125869	29729.00	74.54%	97.43%	58.69%	79.33	72.32%	88.00	38.18%	69.67
Propel Mart	1143763	1117512	26251.00	75.62%	97.70%	59.74%	79.33	73.64%	86.67	40.92%	68.67
Lotus Mart	1157117	1110955	46162.00	60.08%	96.01%	53.35%	75.33	28.11%	77.33	16.34%	58.00
Logic Stores	755835	736562	19273.00	74.39%	97.45%	60.14%	76.00	70.82%	87.50	38.78%	66.50
Info Stores	767833	731262	36571.00	53.05%	95.24%	41.16%	71.00	70.94%	92.00	25.52%	65.50
Expression Stores	768746	749837	18909.00	75.28%	97.54%	60.83%	78.00	69.92%	88.50	38.39%	69.00
Expert Mart	789698	769463	20235.00	75.48%	97.44%	59.81%	80.00	72.54%	91.00	39.11%	73.00
Total	13426936	12969157	457779.00	65.96%	96.59%	52.78%	76.51	59.03%	86.09	29.02%	65.91

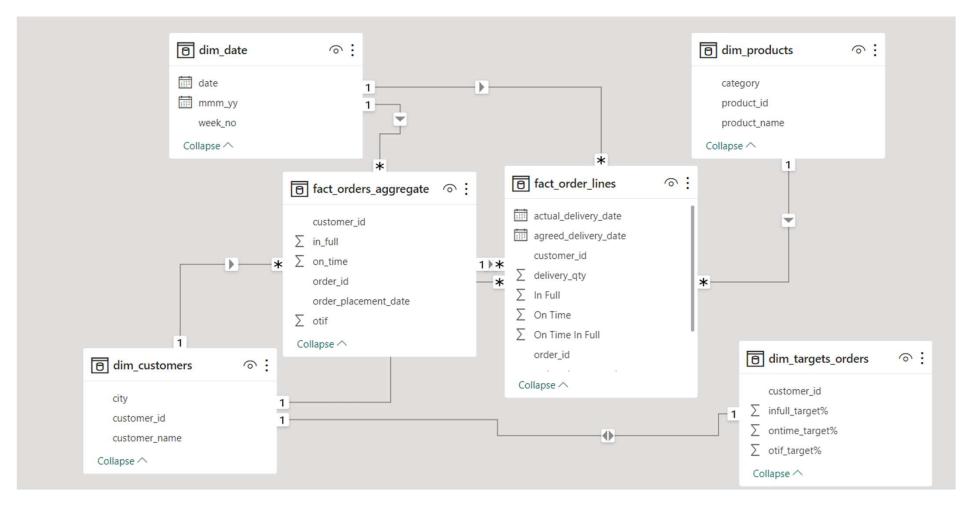
city

Ahmedabad

Surat

Vadodara

## Model



#### **Dashboard Overview:-**

- Major key metrics tracked include OT%, IF%, OTIF%, LIFR (Line Fill Rate), and VOFR (Volume Fill Rate).- DAX formulas are used for these metrics
- The dashboard shows the percentage of all these metrics.
- · Quantity matrices are also calculated.
- Data is presented with splits by cities, highlighting OT%, IF%, and OTIF%
- Slicers are used for Month, Day, and Category filters.
- The Product Insight table presents LIFR and VOFR percentages based on product name and months.
- Line charts display total orders by month and city, with slicers for city, category, and day columns.
- Pie charts depict city by orders, city by delivered orders, and city by undelivered orders.
- Slicers are used for category, product\_name, and date columns.

#### **Some Major Insights:**

- All the Key Metrics (OT%, IF%, OTIF%) are far behind the target
- Surat has fewer orders and delivered orders than other cities, but Vadodara has more undelivered Orders.
- On an average, orders are delayed 0.42 days from the agreed date of delivery.
- Highest orders are coming in Ahmedabad City
- Ghee, curd and butter products are most delayed to deliver.
- There is no noticeable improvements in any of the key metrics in the last few months
- There is a huge gap in IF% for most of the customers. Is it because of less production?