Part 2 - Business intelligence and analytics tools

Part A: Business Report for Tactical Managerial Decision

Question: Should we offer an upgrade to home delivery, and if so, for which customer segment?

Objective: Maximizing customer satisfaction.

Performance Metrics:

1. **Importer Satisfaction Rate** – The number of satisfied importers per quarter as a percentage of the maximum possible satisfaction.

2. **Delayed Packages Rate** – The number of delayed packages per quarter divided by the total number of delivered packages in the same period.

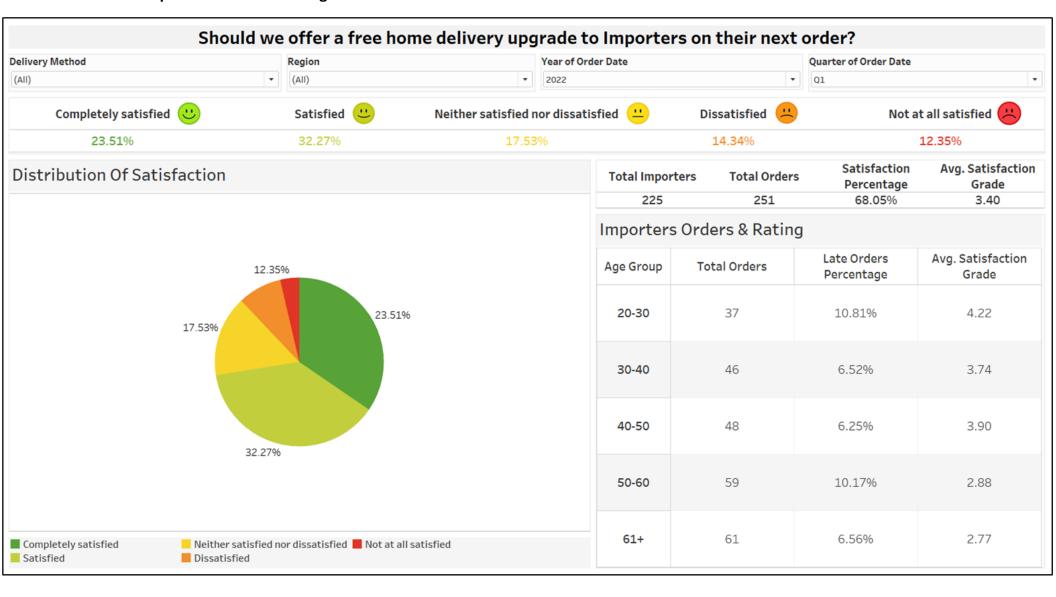
Filters:

- Time Range (Year, Quarter)
- Residential Area
- Delivery Method
- Age Group
- Satisfaction Rating

Filter Implementation:

- 1. Time Range: Filtering via a Drop-Down Menu.
- 2. Residential Area: Filtering via a Drop-Down Menu.
- 3. **Delivery Method:** Filtering via a **Drop-Down Menu**.
- 4. **Age Group:** Filtering by selecting a row (or multiple rows) from a table.
- 5. **Satisfaction Rating:** Filtering via pie chart selection or clicking on a segmentation column (displayed as percentage satisfaction with a smiley icon).

Business Report for Tactical Managerial Decision Preview:



Business Report for Strategic Managerial Decision

Question: Should we conduct a bidding process to work with additional/alternative distributors?

Objective: Maximizing the effectiveness of the import process.

Performance Metrics:

1. **Distributors' Delivery Capacity Rate** – The number of packages distributors can handle per month/multiple months/year, divided by the total number of packages for the same time period.

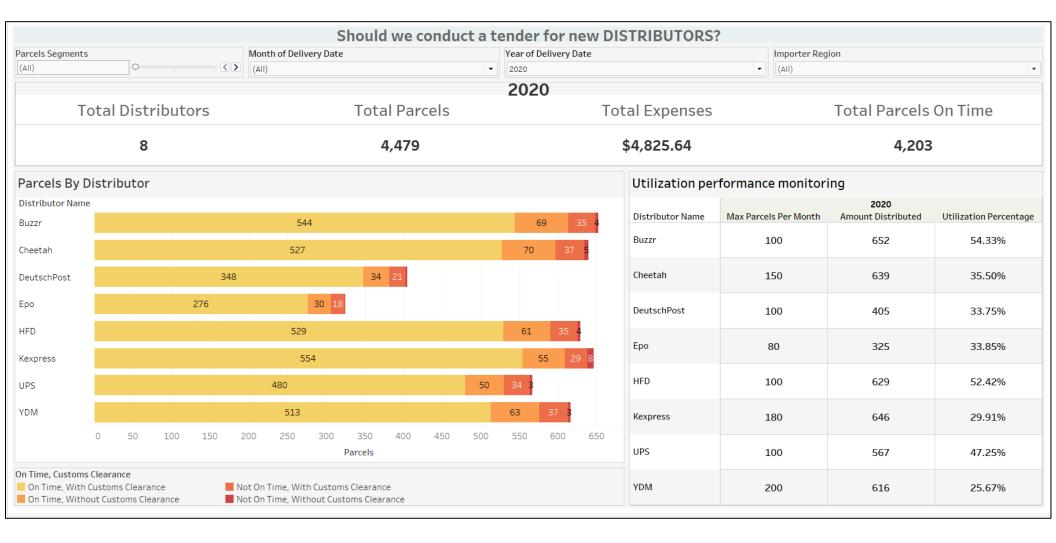
Filters:

- Time Range (Year, Month)
- Residential Area
- Package Delivery Timeliness (On time or not)
- Distributor

Filter Implementation:

- 1. Time Range: Filtering via a Drop-Down Menu.
- 2. Residential Area: Filtering via a Drop-Down Menu.
- 3. Package Delivery Timeliness: Filtering via a Slider.
- 4. **Distributor:** Filtering by selecting a row (or multiple rows) from a table.

Business Report for Strategic Managerial Decision Preview:



Part B: Dashboard

A dashboard for senior management that provides a comprehensive overview of organizational performance, including revenues, expenses, growth trends, and more.

Performance Metrics:

- 1. **Gross Profit Margin** (Revenue Expenses) / Revenue.
- 2. Market Share Percentage (Total orders processed by the company / Total customer (site) orders).

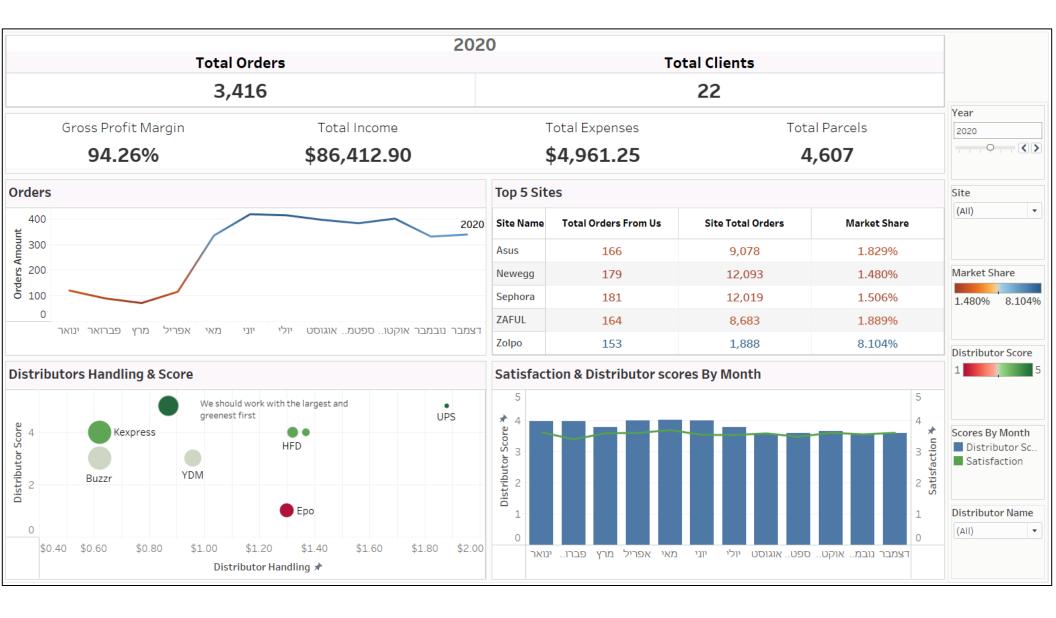
Filters:

- Time Range (Year/Month)
- Customer (E-commerce site)
- Distributor

Filter Implementation:

- 1. **Years:** Filtering via a **Slider**.
- 2. Months: Filtering by selecting a time point in a Line Chart or clicking on a Bar Chart column.
- 3. **Customers:** Filtering by selecting a row from a **table of customer sites** or via a **Drop-Down Menu**.
- 4. **Distributors:** Filtering via a **Drop-Down Menu**.

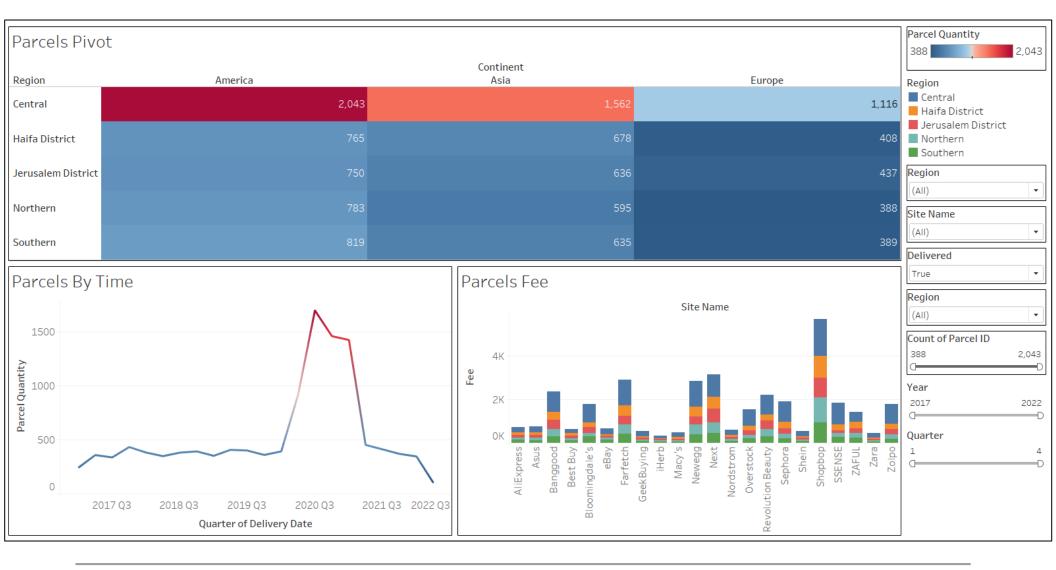
Dashboard Preview:



Part C: OLAP - On-Line Analytical Processing

For more information - see attached OLAP-StoryTelling.pptx

Preview:



Part D: Advanced Visualizations

A dashboard created using Excel to provide a comprehensive performance analysis of e-commerce sites. The visualization integrates financial statistics, fulfillment speed, satisfaction ratings, site experience, and fees into an interactive interface that allows for detailed insights into site performance.

Key Features:

- Overall Performance Score A central metric aggregating key performance indicators into a single percentage value.
- Breakdown of Performance Factors Individual metrics such as fulfillment speed, satisfaction, site experience, fees, and site rating are displayed in a radial structure.
- Financial Statistics Real-time tracking of monthly income, average revenue, and income targets.
- Top 10 Sites Analysis A segmented ranking of the highest-performing e-commerce platforms.
- On-Time vs. Late Deliveries A visual breakdown of the percentage of on-time vs. delayed shipments.
- Filter Options Selection of years (2017-2022), individual e-commerce platforms, and monthly trends.

Business Insights:

1. Performance Benchmarking:

- o Identify high-performing e-commerce sites based on multiple evaluation criteria.
- Highlight areas of improvement, such as fulfillment speed and site experience.

2. Revenue & Market Insights:

- o Assess trends in monthly income and target achievements.
- Compare financial performance across different e-commerce platforms.

3. **Operational Efficiency:**

- o Monitor on-time vs. late deliveries to evaluate the reliability of fulfillment processes.
- o Use performance scores to **refine logistics and service strategies** for each platform.

This Excel-based interactive dashboard serves as a powerful decision-support tool for management, allowing for data-driven analysis and strategic planning based on real-time performance metrics.

Preview:

