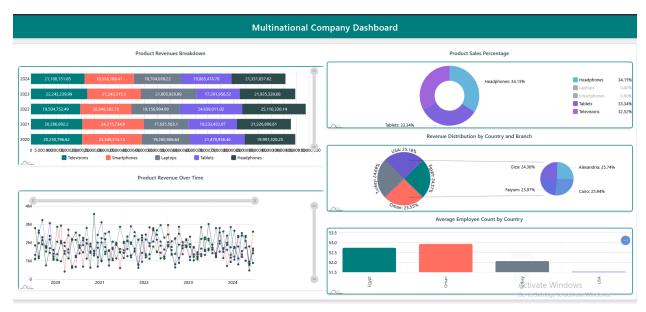
Amr Yasser Anwar 202301043

Report of DSAI 2023 Multinational Company Dashboard

This dashboard offers comprehensive insights into the performance and key metrics of a mall with multiple branches.



Client

The CEO of an electronic devices multinational company

Available Information Provided by Client

- 1. Branches:
 - Egypt: Cairo, Giza, Alexandria, Faiyum

- Turkey: Istanbul, Bursa, Ankara, Antalya

- Oman: Muscat, Sohar

- USA: Austin, New York, Chicago

2. Products:

- Televisions, Smartphones, Laptops, Tablets, Headphones

3. Data Description:

- **Columns:** Year, Month, Branch, Product, SalesQuantity, Revenue, EmployeeCount, ProductPrice.

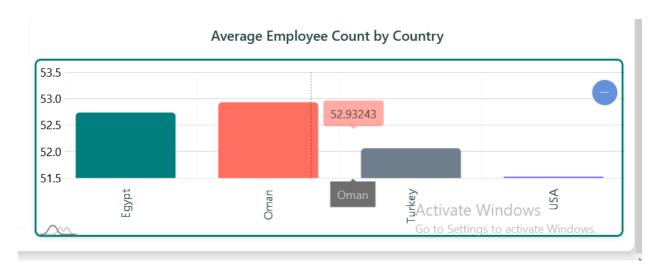
- Time Range: 2020 to 2024.

Questions Answered by the Dashboard

- 1. What is the average employee count across different countries?
- 2. What is the overall sales performance of the company over the years?
- 3. How has the sales revenue for each product changed over time?
- 4. How do different branches compare in terms of sales and revenue?
- 5. What is the distribution of revenue across countries and branches?
- 6. What is the sales count percentage for each product?
- 7. Which products contribute the most to the overall revenue?
- 8. How has the sales quantity and revenue for each product changed over time?

Visualizations

1. Employee Average Count by Country - Bar Chart



- Axis Titles:

- X-axis: Country

- Y-axis: Average Employee Count

- **Legend** Country Names

- Questions Answered: 1

- Colors: amCharts 5 default colors

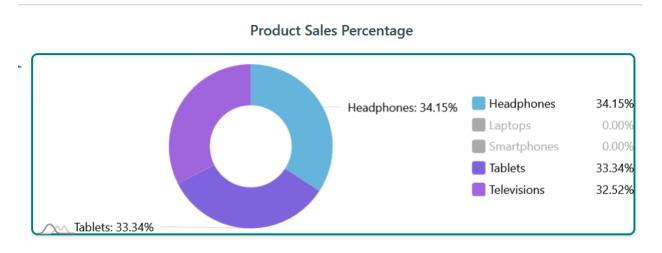
2. Country and Branch Revenue - Exploding Pie Chart

Revenue Distribution by Country and Branch



- Legend: Country and Branch Names
- **Interaction:** Clicking on a country rotates the pie and updates the smaller pie to show branches of the selected country.
- Questions Answered: 5
- Colors: amCharts 5 default colors

3. Sales Count Percentage - Donut Chart



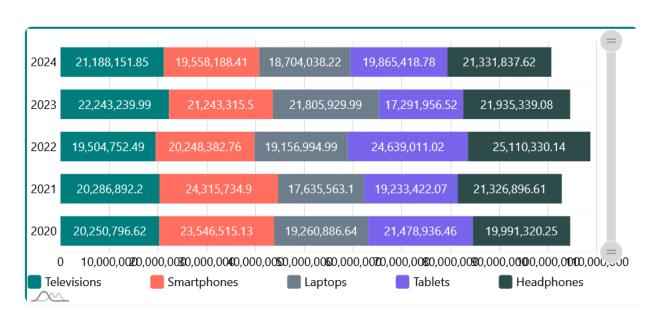
- Legend: Product Names

- Questions Answered: 6, 7

- Colors: amCharts 5 default colors

4. Product Revenue - Line Graph

Product Revenues Breakdown



- Axis:

- X-axis: Year-Month

- Y-axis: Revenue

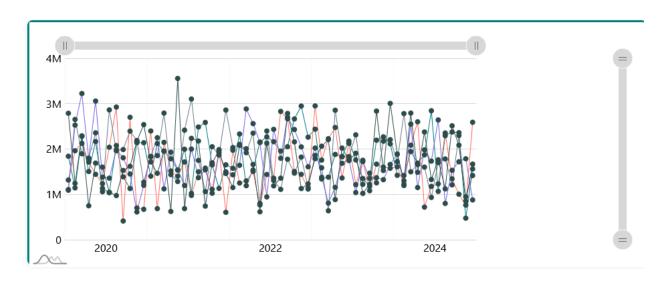
- **Legend:** Products. Hovering over a product highlights its line, and hovering over a point shows the exact revenue value. Includes horizontal sliders for selecting a time range or moving vertically along values.

- Questions Answered: 3, 8

- Colors: amCharts 5 default colors

5. Product Revenue Breakdown - Stacked Bar Chart

Product Revenue Over Time



- Axis:

- X-axis: Revenue

- Y-axis: Year

- **Legend:** Products. You can hide a category by clicking the square beside the product name.

- Questions Answered: 2, 4

- Colors: amCharts 5 default colors

Positioning

Left Half:

- 1. **Stacked Bar Chart (Product Revenue Breakdown):** Positioned at the top for a quick overview of product revenue breakdown.
- 2. **Line Chart (Product Revenue Over Time:** Positioned below the stacked bar chart to show revenue trends over time.

Right Half:

- 1. **Donut Chart (Sales Count Percentage):** Positioned at the top for a quick view of sales count distribution.
- 2. **Exploding Pie Chart (Revenue Distribution by Country and Branch):** Positioned in the middle to highlight distribution across countries and branches.
- 3. **Bar Chart (Average Employee Count by Country):** Positioned at the bottom to show average employee count across different countries.

Future Work:

- Dynamic Data Integration
- Responsive Design
- Dashboard Theming by users