Power BI Project Summary

Project 2: Admissions Trend and Shipping Cost Analysis

Problem Statement 1: Data Transformations

Objective: Perform data transformations using Power BI's Query Editor.

Use Case: Design a dashboard to analyze the trend of admissions into state universities.

Dataset: USA State University Admissions

Transformations Applied:

1. Append Data
2. Split Data
3. Column Formatting
4. Fill Columns
5. Transpose Table
6. Pivot / Unpivot
7. Merge Join
8. Conditional Columns
9. Index Columns
10. Summary Tables

Problem Statement 2: Advanced Visualizations

Objective: Create advanced dashboards using expressions and filters.

Use Case: Analyze admission trends using advanced visualizations.

Dataset: USA State University Admissions

Dashboard Visualizations:

1. Total Applications vs. Target Trend by State
2. Total Applications by State (Geo Dashboard)

3. Tabular Presentation of Universities and Funds

4. Percentage of Applications by Race

Universities Analysis Dashboard:

5. Top 10 Universities by Applications

6. Top 10 Universities with/without Special Grants

7. Bottom 10 Universities by Applications

8. % of Applications Vs. University Fund Allocations

Problem Statement 3: Shipping Cost Leakages

Use Case: Identify shipping cost leakages using top-down and bottom-up analysis.

Dataset: Superstore Sales

Top-Down Analysis:

1. Shipping Costs by Order Priority - Bar Chart

2. Shipping Costs by Shipping Mode - Funnel Chart

3. Shipping Costs by Customers - Scatter Plot

4. Transactional View of Underlying Data

Bottom-Up Analysis:

1. Duplicate Dashboard and Modify Interactions

2. Replace Transactional View Donut and Scatter Plot with Tree Map