**Project**

# Problem Statement- 1

**Objective**- Data Transformations

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

**Source** -USA StateUniversity Admissions

**Analytics** - Use Query Editor to perform data modeling by apply transformations like

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

# Problem Statement- 2

**Objective**- Advanced Visualizations.

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

**Source** - USA StateUniversity Admissions

**Analytics** - Use expressions and filters to build custom visualizations

**Dashboard - Applications Analysis**

1. Total Applications vs. Target Trend by State
2. Total Application by State Geo Dashboard
3. Tabular presentation of universities and funds
4. % of Applications by Race

**Dashboard - Universities Analysis**

1. Top 10 Universities by Applications
2. Top 10 Universities by Applications with and without Special Grants
3. Bottom 10 Universities by Applications
4. % of Applications Vs Universities Fund Allocations

# Problem Statement- 3

**Use Case** -Top Down and Bottoms Up Analysis to identify Shipping Costs Leakages

**Source** -Superstore sales

**Analytics**-Build a set of visualizations to identify underlying outliers and flip same set of visualizations to perform bottom up analysis.

**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 above dashboard and change interactions
2. Replace Transactional View Donut and Scatter Plot with Tree map